FOURTEENTH YEAR ANNUAL REPORT

INTERSTATE POLLUTION CONTROL/ROTO-ROOTER SUPERFUND SITE Winnebago County Rockford, Illinois

Prepared for:

Interstate Pollution Control/Roto-Rooter Superfund Site Remedial Design/Remedial Action Steering Committee

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1.0 INTRODUCTION

This Fourteenth Year Annual Report ("report") was prepared by Environmental Information Logistics, LLC (EIL) on behalf of the Interstate Pollution Control/Roto-Rooter ("IPC") Superfund Site Remedial Design/Remedial Action Steering Committee. This report discusses the results of long-term natural attenuation monitoring for the current monitoring period (December 2020 through June 2021), and satisfies the requirements of the IEPA-approved Groundwater Monitoring Work Plan ("GWMP"), dated March 1, 2006, the IEPA-approved First Year Annual Report/Technical Memorandum ("Tech Memo"), dated August 28, 2008, and the Consent Decree (with Appendix B – Statement of Work (SOW)) with the State of Illinois, dated March 1, 2006.

The November 8, 2005 Consent Decree was implemented following decades of contaminant removal actions that occurred at the site from the 1970s through the 1990s. In general, the Consent Decree required the installation of an asphalt cap at the site, installation of monitoring wells, the implementation of institutional controls, and groundwater monitoring until groundwater quality at the site was restored to MCLs. To date, all of the requirements have been completed with the exception of the ongoing groundwater monitoring.

The IEPA-approved GWMP was prepared as part of the groundwater monitoring obligation at the site. Section 6.0 of the GWMP states the following:

"Annual reports will be prepared and submitted to the IEPA within 45 days of completing each second semi-annual groundwater sampling event (except in years 1, 5, 10, 15, etc., as discussed above and below). Each of the annual reports will include a summary of groundwater data collected during the past year and will include an evaluation, based on the IEPA-approved statistical methodology, of the source of any statistically significant changes to groundwater quality. Where appropriate, the annual report may also recommend changes to the statistical methodology for future monitoring events."

Section 6.0 of the GWMP also states the following:

"Five-year review reports will be submitted to the IEPA within 45 days of completing the second semi-annual sampling event at the end of each five-year cycle. Each five-year review report will include a cumulative summary of the results of statistical analysis of that data, and an evaluation of the source of any statistically significant changes to groundwater quality."

This is the fourteenth annual report prepared since natural attenuation groundwater monitoring began at the site.

1.1 Site Description and Background

1.1.1 Site Description

The Interstate Pollution Control Inc. (IPC) site ("the site") is located in an industrial area in the south central part of Rockford, Winnebago County, Illinois north west of Magnolia Peoples Avenue, as shown on Figure 1. The small (approximately 2.8 acre), irregularly-shaped site measures approximately 850 feet long along the north boundary line and 270 feet along the east boundary line. The site is surrounded by numerous industrial facilities. A Site Vicinity Map is included as Figure 2 and a Site Layout Map is included as Figure 3.

During IPC's operation of the site it contained, at various times, at least six underground storage tanks, one large above-ground storage tank, an unlined surface impoundment, a gas fired incinerator, and several structures. IPC's operation at the site included transporting and bulking of waste oils, solvents and cyanide waste for incineration, resale and/or off-site disposal. Also during IPC's operation of the site, support service was provided to two sister companies; a portable toilet business and a Roto-Rooter franchise. Prior to IPC's operations, the site was extensively quarried and backfilled with various materials including a large quantity of foundry sand. Following filling of the quarry and immediately prior to IPC's operations, the site was the location of an auto salvage yard.

In 1991, private parties negotiated a Partial Consent Decree with the Illinois EPA and the Attorney General of the State of Illinois. The Partial Consent Decree required that the private parties ("Respondents") undertake a Remedial Investigation/Feasibility Study ("RI/FS") at the site. The RI Work Plan was completed in 1992, and the field investigations were conducted in 1993-1994. The final RI Report was submitted in 1997.

Significant removal actions occurred at the IPC site on two different occasions. The incinerator was removed between 1976 and 1979. IPC conducted partial cleanup of the site in 1979 and 1980, in response to an Illinois Pollution Control Board Order. During this partial cleanup of the site, several bulk tankers containing wastes, approximately 180 yds³ of material from the surface impoundment, and approximately 120 yd³ of cyanide-contaminated soils were removed. Reportedly, 1,200 drums of contaminated materials were also removed from the site during this cleanup. The surface impoundment was backfilled and graded.

On August 6, 1991, the U.S. EPA issued a Unilateral Administrative Order ("UAO") to IPC and the Respondents to conduct additional removal activities at the site. Beginning in 1992, the Respondents to the UAO fenced the site, removed over 1,400 tons of solid and hazardous waste (including visibly stained soils), demolished and removed all above-ground and underground tanks and significant structures, installed a clay cover over the former impoundments, and substantially cleared the site.

These removal actions eliminated more than 2.9 million pounds of solid and hazardous waste. These materials constituted principal threats at the site and were removed, treated, destroyed, or disposed of prior to the initiation of the RI/FS.

1.1.2 Constituents of Concern (COCs)

A total of 73 chemicals of potential concern ("COPCs") were identified originally in the RI based on previous detections in site soils and were selected for risk assessment. These included 11 volatile organic compounds ("VOCs"), 29 semi-volatile organic compounds ("SVOCs"), 14 pesticide/PCB compounds, 18 trace metals, and cyanide. In addition, a total of 33 chemicals previously detected in on-site groundwater were selected as COPCs. These included 11 VOCs, 10 SVOCs, one pesticide/PCB compound, 11 trace metals, and cyanide. A significantly reduced number of these COPCs were found to be risk drivers, as summarized in the "Risk Driving Chemicals of Potential Concern" table from Section V of the ROD.

Based on the previously discussed contaminant removal activities and the installation of the engineered barrier, and as stated in Section 2.4 of the SOW, "VOCs are the sole constituents of concern" with respect to long term natural attenuation groundwater monitoring at the site. Section 2.4 of the SOW specifies that "...groundwater will be sampled for TCL VOC's only." during long term natural attenuation monitoring. In addition, paragraph XII of the Record of Decision (ROD) states "If during each Five Year Review cycle spastically [sic] significant decreases in on-site and down gradient concentrations of trichloroethene and 1,1,1-trichloroethane in shallow groundwater are not verified (which cannot be attributed to upgradient sources), the SVE design pilot test will be implemented."

Seven VOCs were detected in site monitoring wells during the background data collection period and as reported in the August 28, 2008 First Year Annual Report/Technical Memorandum. These included:

- 1,1,1-trichloroethane;
- 1,1-dichloroethane;
- 1,1-dichloroethene;
- cis-1,2-dichloroethene;
- tetrachloroethene;
- trichloroethane; and
- vinyl chloride.

However, only four VOCs were proposed originally as site-specific COCs for long-term groundwater quality evaluation. Three VOCs, 1,1-dichloroethane, vinyl chloride, and cis-1,2-dichloroethene, were specifically not proposed as COCs because they were generally detected at elevated concentrations in downgradient monitoring wells and because there was, and continues to be, strong evidence to suggest that the downgradient concentrations were, and continue to be, biased due to an off-site source (i.e., landfill gas from the adjacent Peoples Avenue Landfill). However, IEPA's approval of the August 28, 2008 First Year Annual Report/Technical Memorandum was conditional based on the inclusion of all seven VOCs as COCs. Therefore, all seven of the VOCs detected during background data collection and as listed above are evaluated herein as COCs.

1.1.3 Extent of Groundwater Impacts

Remedial investigation activities were conducted at the site to evaluate the nature and extent of contamination, and to assess environmental impacts. Detailed results are provided in the *Final*

Remedial Investigation Report, Interstate Pollution Control Inc. Site, Rockford, Illinois (Golder Associates Inc., December 1997). In general, site groundwater was found to be impacted with numerous organic and inorganic constituents from a combination of past site activities and from a number of upgradient sources. Some of the upgradient sources are being addressed under various regulatory actions and it appears that some are not. In addition, landfill gas from the adjacent Peoples Avenue Landfill was detected on-site and was identified as another possible source of VOCs in groundwater.

The site is located adjacent to the much larger Southeast Rockford Groundwater Contamination ("SER") site. The SER site began with the discovery of VOCs in groundwater within a residential area of nearly two square miles. The discovery prompted the USEPA to extend water mains and connect 526 residences to City water at a cost of approximately \$4 million. The SER site was then added to the National Priorities List ("NPL"). After further IEPA study, the SER site was expanded to a ten square mile study area ("SER Study Area") that incorporates almost 20 percent of the City, and which includes the IPC site. Studies have since indicated the widespread presence of chlorinated solvents in groundwater within this ten square mile area, in concentrations varying from less than 10 ppb to over 10,000 ppb.

The SER ROD defines the boundary of the SER Site by the 10 ppb chlorinated VOC plume that extended to approximately 1,200 feet southeast of the IPC site at its closest point (as of 1993). It was reasonable to expect that parts of this plume would expand to the extent that it would affect groundwater beneath the IPC site. It appears that the plume arrived at the upgradient site monitoring wells several years ago and is affecting groundwater quality at IPC.

As discussed in the 1999 site ROD, there are/were also a number of other known groundwater contaminant sources located near the IPC site. For example, the former Mattison Machine Works is located approximately 1,000 feet to the northeast (i.e., upgradient) (Figure 2). Previous studies at Mattison Machine Works dating back to 1993 indicate that a plume containing PCE (up to 10,600 ug/L), TCE (up to 1,500 ug/L), and 1,1,1-TCA (up to 800 ug/L) is/was passing under that facility. These concentrations are much higher than are in groundwater at IPC.

In addition, the Peoples Avenue Landfill, located immediately southeast of IPC (Figure 2), was previously identified as the likely source of groundwater contamination that contributed to the deterioration of groundwater quality in one of the City of Rockford's public supply wells (Municipal Well No. 14), ultimately resulting in the abandonment of the supply well in 1971, prior to operations at IPC. The Peoples Avenue Landfill is also a known source of landfill gas (including methane) migration that previously entered the basement of the former Quaker Oats pet food manufacturing plant, located just southwest of the IPC site. And, as reported previously, there is evidence to suggest that landfill gas has already impacted site monitoring well MW-4, which is located between the IPC site and the Peoples Avenue Landfill (Figure 3).

While remedial actions associated with some of the known sources within the SER Study Area are presently on-going, the IEPA and U.S. EPA have not specifically addressed some of the known groundwater contamination sources near to and upgradient of the IPC site (e.g., Mattison Machine Works). As indicated in the RI report and in the ROD, some of these sources contain elevated concentrations of VOCs, some of which are/were higher than those measured on-site.

As noted in the ROD,

"One of the most notable outcomes of the groundwater portion of the [RI] investigation was verification that a plume of chlorinated volatile organic compounds, at substantially higher concentrations than occur on site is approaching the site from the north east. The plume is expected to reach the IPC site in 15 to 45 years."

This is significant because, given that the RI data collection activities were completed by 1994, the "plume" would have possibly reached the site as early as 2009, resulting in degradation of site groundwater quality that is completely unrelated to the performance of the selected remedy and which could be attributed mistakenly to the site. As such, the interpretation of the results of long term natural attenuation monitoring must take into account the potential for groundwater quality degradation due to off-site sources. This approach reduces the possibility of incorrectly concluding that the selected remedy is insufficient and that the remedy must be supplemented with soil vapor extraction.

In fact, and as discussed in the First Year Annual Report/Technical Memorandum, subsequent annual reports, and the Five Year Review Reports (in 2010, 2015, and 2020), an upgradient plume appears to have arrived at the site. This was acknowledged in an October 22, 2012 IEPA letter which stated:

"Based on the data in the report [Five Year Review Report], it appears that an upgradient plume may have arrived at the site and the down gradient concentrations of the contaminants mentioned above [trichloroethene and 1,1,1-trichloroethane] are decreasing."

While the source of the plume is unknown, it is likely that it is the same one previously reported under the Mattison Machine Works property, and it is possible that the SER Site plume has also expanded to the extent that it now affects groundwater quality at the IPC site. Regardless of the source, it is reasonable to expect that the plume will continue to migrate through the site until such time that the upgradient sources are either removed or isolated, eventually affecting the three downgradient site monitoring wells, and ultimately the two river wells. In fact, there is evidence to suggest that his has already occurred.

1.2 Groundwater Monitoring Network

The current groundwater monitoring network consists of eight groundwater monitoring wells, including six site wells (MW1 to MW6) and two "River Wells" (MW8 and MW9) that are located southwest of the site, adjacent to the Rock River. The locations of these wells are shown on Figure 3.

Site wells MW1 to MW6 are screened at a depth of approximately 60 feet within the shallow sand and gravel aquifer. Both regional and local groundwater flow in this aquifer is generally from northeast to southwest, towards the Rock River. This is consistent with groundwater contour maps prepared from groundwater elevation data collected during this reporting period, included as Figure 4 and Figure 5. Based on this groundwater flow direction, monitoring wells

MW3, MW5, and MW6 are generally on the hydraulically upgradient perimeter of the site. The remaining three monitoring wells, MW1, MW 2, and MW4 are generally on the hydraulically downgradient perimeter of the site.

It should be noted that the site wells were never surveyed to mean sea level. Instead, they were surveyed to a common site datum. As such, the groundwater flow lines accurately depict flow direction, but they are referenced to the site datum, not to mean sea level.

River Wells MW8 and MW9 were installed at the locations shown and to a depth of approximately 19 feet in March 2009, in accordance with the Consent Decree. Based on current groundwater flow conditions, both river wells are hydraulically downgradient of the site.

The two river wells were installed in March 2009 and background data collection was completed following the fourth quarter 2009 sampling event. The results of the river well background data collection and the calculated COC standards were provided to the IEPA on June 1, 2010. This report includes data collected during this reporting period (December 2020 through June 2021).

1.3 Statistical Evaluation Plan and Methods

As noted above and illustrated in Figure 2, the site is located in a heavy industrialized area and several of these industrial properties that are located adjacent to and upgradient of the site have known VOC releases to groundwater. These off-site sources were anticipated to present a challenge for groundwater monitoring at the site - how to determine if COC concentrations at the site are the result of site materials or from off-site sources that migrate onto the site. In order to address this challenge, a statistical evaluation approach was developed to evaluate the ongoing groundwater monitoring data.

A statistical evaluation plan (STEP) was prepared as part of the IEPA-approved August 28, 2008 First Year Annual Report/Technical Memorandum. The approved STEP included a combination of interwell and intrawell analyses to evaluate site groundwater data. Interwell analysis compares data from compliance (i.e., downgradient) wells against a background set of data pooled from the upgradient wells. Intrawell analysis, on the other hand, compares the data from each well against a background data set from each well's historical data. The STEP was also designed with flexibility to allow for periodic adjustments to account for off-site impacts and to minimize the possibility for non-site related statistical failures.

Background groundwater quality data collection was performed from four consecutive quarters (3Q07 through 2Q08) at the six site monitoring wells (MW1 to MW6) in accordance with the ROD, SOW, and IEPA-approved GWMP. Background standards were calculated based on the first four quarters of background data collection and subsequently approved by IEPA.

Background data collection was subsequently performed from four consecutive quarters (1Q09 through 4Q09) at the two River Wells (MW8 and MW9). Background standards for the River Wells were calculated based on the background data collection and were subsequently approved by IEPA.

Most STEPs are based on the assumption that there is a single contaminant source. Because there are numerous other documented sources that are affecting site groundwater quality, and because both the upgradient and the downgradient wells were already impacted when natural attenuation monitoring began, there is a greatly increased chance for non-site related statistical failures. Therefore, the approved STEP included a multi-phase evaluation process involving both interwell and intrawell statistical comparisons.

The first phase involves a screening step to evaluate whether or not the upgradient plume is impacting the upgradient site wells. To accomplish this, intrawell prediction limits are use to evaluate each COC in each of the three upgradient monitoring wells (MW3, MW5, and MW6). If there are no "failures", (i.e., no COC exceedances of the calculated intrawell standards), then we conclude that there are no new off-site impacts affecting site groundwater quality, and the analysis continues with the second phase, discussed below. If there is a COC exceedance of a calculated intrawell standard, then we consider an appropriate course of action. If, for example, only one COC "fails" the intrawell test, then possibly statistical analysis can continue with the second phase not including the failed COC. If, however, numerous or all the COCs fail the upgradient intrawell test, then a revision of the statistical approach, or possibly a recalculation of background standards, is performed. Accordingly, upgradient intrawell standards were revised in 2009 and 2019, as discussed in the annual reports for those years.

The second phase is performed if each COC at each of the three upgradient wells passes the first phase screening. The second phase involves interwell comparisons between each COC in the three downgradient wells (MW1, MW2, MW4, and River Wells MW8 and MW9) with the calculated background standard from the pooled upgradient data. If there are no interwell exceedances, then the conclusion is that there is no site groundwater quality degradation and no further statistical comparison are necessary. If, however, there is a failure based on an interwell comparison, then confirmation re-sampling is performed for the failed COC/well combination(s) in question.

Confirmation re-sampling is performed within 14 days following the receipt of validated laboratory data that indicates a statistical exceedance of an interwell background standard. In general, the results of the confirmation re-sampling are substituted for the original data. If the confirmation re-sampling data are within (i.e., below) the interwell background standard for the COC in question, then the conclusion is that there is no site groundwater quality degradation and no further statistical comparison are necessary. If, however, the re-sampling result "confirms" the original result (i.e., the result exceeds the corresponding interwell background standard), then statistical analysis will continue with the third phase, discussed below.

The third phase is performed if a downgradient well, or wells, fail(s) an interwell comparison to an upgradient background standard. If this occurs, then an Alternative Source Demonstration (ASD) may be performed, if appropriate, to evaluate whether or not an off-site source, such as landfill gas from the adjacent Peoples Avenue Landfill, is possibly impacting site groundwater and is responsible for the downgradient statistical failure. The ASD could involve additional dissolved methane sampling or other investigations/evaluations, to be determined in cooperation with the IEPA. The results of the ASD are included in the appropriate annual report(s). If there

is clear indication that groundwater conditions are deteriorating due to the site, then the implementation of additional remedial measures (e.g., soil vapor extraction) may be considered.

The IEPA-approved STEP includes an allowance for periodic recalculation of background standards (as appropriate) and/or adjustment of the evaluation protocol in order to reduce the likelihood of false positive statistical failure related to the off-site sources. Since contaminant slugs from the upgradient plume continue to migrate through the site, and also due to historical landfill gas impacts from the adjacent Peoples Avenue Landfill, the calculated background standards and statistical evaluation criteria were revised in 2009 and in 2019, as documented in those respective annual reports.

The STEP was modified in 2009 as follows:

- Intrawell background standards were recalculated for 1,1-DCA in MW3 and for PCE and TCE in MW6 to account for the arrival of the off-site (upgradient) contaminant plume.
- Interwell background standards were recalculated for 1,1-DCA, PCE, and TCE in the three upgradient wells to account for the arrival of the off-site (upgradient) contaminant plume.
- A statistical failure at MW4 would hereafter be based on a combined failure of an interwell *and* an intrawell background standard to reduce the possibility of a statistical failure due to landfill gas influences from the Peoples Avenue Landfill.

The STEP was further modified in 2019 to better reflect the ongoing, periodic impacts from offsite sources observed at the upgradient monitoring wells. These modifications included the following revised background standards:

- intrawell background standards for 1,1-DCA in upgradient well MW3;
- intrawell background standards for PCE in upgradient wells MW3 and MW6; and
- interwell background standards for 1,1 DCA and PCE.

The evaluations included in this Annual Report are based on the most recent (2019), IEPA-approved STEP revisions.

1.4 Remediation

The IEPA selected the remedial alternative with the concurrence of the U.S. EPA and after a detailed analysis of the alternatives that were included in the approved Feasibility Study (FS). The selected remedial alternative addresses the principal threats by installation of an impermeable barrier over the site (completed in 2006), placing institutional controls on future site uses, reinforcing existing city and state groundwater use restrictions, and addressing groundwater contamination resulting from the site by implementing a monitored natural attenuation program (which began in September 2007). There is also a contingent remedy that includes soil vapor extraction should the IEPA conclude during the five-year review periods that

site and downgradient groundwater quality has not improved due to continued site releases "which cannot be attributed to upgradient sources".

An SVE system was not included as an active part of the current remedy for a number of reasons, as discussed in the FS. First, the incremental improvement in reducing VOC migration to groundwater, and therefore in reducing risk to health and the environment, was deemed minimal following the construction of the surface barrier. Second, the treatment efficiency for an SVE system was not quantifiable given the on-going impacts from off-site sources. Finally, there were concerns that an SVE system would induce landfill gas migration from the Peoples Avenue Landfill that would adversely impact the operation of such a system. There were also concerns, discussed with the IEPA during the FS evaluation process, that such landfill gas migration would create a site health and safety issue related to possible explosive hazards.

While there would be potential site health and safety issues associated with managing landfill gases while operating an SVE system, there would likely be other, more significant hazards that could result. For example, if an on-site SVE system were installed, there would be an increased potential for landfill gas to flow from the Peoples Avenue Landfill towards the IPC site. Because that gas would have to migrate across Peoples and Magnolia Avenues, some of it would find its way into various man-made conduits (e.g., underground utility backfill, sewers, etc.). Once in these conduits, the landfill gas would have an opportunity to travel for great distances and in many directions, possibly entering buildings, and thus creating explosion hazards.

Nothing has changed at the site that would alter the first criterion, above. The engineered barrier was installed and is being maintained, effectively eliminating both surface water infiltration and potential exposure to any remaining site contaminants. However, with the predicted arrival of the uncontrolled upgradient plume(s), groundwater quality beneath the engineered barrier is likely to degrade for an unknown period of time.

Regarding the second criterion, if there was formerly an inability to quantify the efficacy of an SVE system given the then-current contaminant loads, then the documented arrival of the off-site plume(s) has further reduced the ability to quantify the efficacy of an SVE system. For example, if an SVE system were installed and operated concurrent with the arrival of the upgradient plume, then it would be likely that the additional contaminant load from the plume would far exceed the remedial effect of the SVE system.

Regarding the third criterion, the potential for an SVE system to induce off-site landfill gas migration appears to be quite real given the documentation showing that groundwater in MW4, located adjacent to the Peoples Avenue Landfill, already contains (or contained) dissolved methane which is/was likely the result of landfill gas migration on to the site. It is reasonable to expect that if landfill gas can migrate to the site under current, passive conditions (i.e., with no SVE system), then there is a greatly increased likelihood of additional landfill gas migration under active conditions (i.e., with an active SVE system) with a corresponding potential increase in groundwater quality degradation and health and safety related issues associated with uncontrolled landfill gas migration via underground utilities.

Finally, it must be emphasized that the SVE system would be designed to reduce contaminant load in site soils and thus reduce the potential for contaminant migration from site soil to site groundwater, premised on the assumption that current groundwater impacts are generally a function of the current soil contaminant load. Given that the upgradient groundwater plume(s), which appears to have already reached the site, contain higher concentrations of some COCs than are currently in site groundwater, it is fair to expect that the upgradient source will be significantly larger and/or more heavily contaminated than what presently remains in site soil. Under these conditions the incremental improvement to site groundwater quality via the implementation of an SVE system will be immeasurable or nonexistent.

On the basis of these arguments, the IPC Settling Defendants recommended previously (*River Well Statistics Technical Memorandum, June 1, 2010*), and continues to recommend, that the SVE system be excluded from further consideration as a contingent remedy. This recommendation is included in Section 5 of this report.

1.5 Fourteenth Year Annual Report Overview

The purpose of this report is to provide the results of long-term natural attenuation monitoring to date at the site, a comparison of the data to previously calculated/IEPA-approved background groundwater quality standards, and an evaluation of whether the site is currently impacting groundwater. This report is organized as follows:

- Section 2.0 provides on evaluation of groundwater quality based on a comparison of COC detections with calculated COC background standards.
- Section 3.0 includes an alternative source demonstration (ASD) for various COCs detected currently or previously in monitoring wells MW1 and MW4 and, in general, any other statistically significant changes to groundwater quality, if any.
- Section 4.0 includes a summary and conclusions.
- Section 5.0 includes recommendations.
- Section 6.0 includes references.

2.0 EVALUATION OF SITE GROUNDWATER QUALITY

2.1 Results of Ongoing Natural Attenuation Groundwater Monitoring

Semiannual groundwater sampling for each of the seven COCs was performed in each of the eight natural attenuation monitoring wells during this reporting period. Groundwater sampling and analysis was performed in accordance with the IEPA-approved FSP, QAPP, and GWMP. Each well is purged until temperature, conductivity, pH, and turbidity stabilize within accepted criteria, to the extent that is practical. The laboratory data reports are included as Attachment 1.

A summary of the analytical results for each COC in each monitoring well during this monitoring period is included in Table 1. Concentration time trends for each COC in each well are included as Attachment 2.

Each laboratory data report was reviewed for completeness and accuracy, in accordance with the IEPA-approved quality assurance project plan (QAPP). The reviews included laboratory QA/QC documentation and the results of field and quality control blanks. Data validation summaries for each laboratory sampling report are included in Attachment 3.

A discussion of site groundwater quality is included below.

2.1.1 Upgradient Site Groundwater Quality

Overall upgradient groundwater quality has improved with respect to total VOC load since natural attenuation monitoring began in 2007, even though the concentration of tetrachloroethene (PCE) has generally increased in upgradient wells MW5 and MW6 during the same period. This is consistent with the apparent arrival of the off-site, upgradient VOC plume (or discreet "slugs" from that plume), as reported previously. As stated in the ROD,

"One of the most notable outcomes of the groundwater portion of the [RI] investigation was verification that a plume of chlorinated volatile organic compounds, at substantially higher concentrations than occur on site is approaching the site from the north east. The plume is expected to reach the IPC site in 15 to 45 years."

Given that the RI data collection activities were completed by 1994, arrival of the plume by 2009 is entirely consistent with the predictions included in the RI Report. This appears to be further supported by the total (i.e., cumulative) VOC load trends included as Attachment 4.

2.1.2 Downgradient Site Groundwater Quality

During this reporting period there were no confirmed statistical exceedances in any of the downgradient site monitoring wells, as defined in the IEPA-approved statistical analysis plan. Downgradient groundwater quality in the three downgradient site wells has continued to improve since natural attenuation monitoring began. Total VOC load in the downgradient wells, depicted in the time trends included as Attachment 4, has decreased fairly steadily and is currently at its lowest concentration of 226 ug/L, compared to the highest of 1020 ug/L just after natural attenuation monitoring began, a decrease of about 78 percent.

The historical presence of 1,1-DCA and vinyl chloride in well MW4, both at relatively high concentrations compared to the other site monitoring wells, was reported previously in the First Year Annual Report/Technical Memorandum and was attributed to landfill gas from a known off-site/side gradient and uncontained source, the Peoples Avenue Landfill. This was the primary motivation behind our initial request to exclude these two compounds from long-term natural attenuation monitoring, which was denied by IEPA.

This report includes an alternative source demonstration (ASD) in Section 3.0 for 1,1-DCA and vinyl chloride in well MW4 even though neither compound exceeded its background standards during this reporting period.

2.1.3 Comparison of Upgradient Vs. Downgradient Groundwater Quality

As shown in the total VOC load time trends, the total (i.e., cumulative) VOC load has always been higher in the three upgradient wells compared to the three downgradient wells since natural attenuation monitoring began in 2007. Clearly, upgradient groundwater quality is worse than downgradient groundwater quality based on total VOC load. Therefore, it is reasonable to conclude that upgradient sources are significantly contributing to groundwater contaminant loads at the site.

The IEPA requested in their August 26, 2009 Second Year Annual Report comment letter that a graph showing the sum of trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) in the upgradient site wells compared with the sum in the downgradient site wells be included in the annual reports. Such time trends for all COCs are included in Attachment 5. As shown on the graph, the total concentrations of these two compounds have been consistently higher in the upgradient wells (driven in recent years by TCE). The sum of TCE and 1,1,1-TCA in the upgradient wells peaked in December 2009. Since that time, the concentrations of both compounds have been generally decreasing.

During the same time period the sum of TCE and 1,1,1-TCA in the downgradient wells has generally mirrored the pattern observed in the upgradient wells. However, it is relevant to note that the sum of TCE and 1,1,1-TCA in the downgradient wells is now approximately 81% less than it was at its peak, and this in spite of the arrival of the upgradient plume. Based on this comparison, groundwater quality has improved downgradient of the site compared to upgradient of the site.

In addition, total upgradient vs. downgradient VOC load trends for each COC are included as Attachment 6. These clearly show that the main VOC load contributors, PCE and TCE, have always been significantly higher in the upgradient wells compared to the downgradient wells.

2.1.4 Downgradient River Well Groundwater Quality

The area downgradient of the site (near the Rock River) is monitored using wells MW8 and MW9. There were no VOC detections in MW9 during the reporting period, nor have there been any for approximately 7 years.

Four VOCs were detected in MW8 during this reporting period. These included 1,1-DCA, cis-1,2-DCE, PCE, and TCE, similar to previous years. The concentrations of each compound were

well below their respective interwell background standards, with the single exception of 1,1-DCA in the 4Q20 sampling event. However, the concentration never exceeded its intrawell standard and the concentration has since dropped back down below the interwell standard. Notably, there appears to be a seasonality associated with the 1,1-DCA concentrations, with nearly all of the high concentrations occurring during the December sampling events (Refer to Attachment 2).

Based on the above results, there is no indication of site-related groundwater impacts in the river wells.

2.1.4 Quality Assurance/Quality Control Issues

There were no major quality assurance/quality control (QA/QC) issues identified during this reporting period. However, there was one minor QA/QC issue that was identified during the December 2020 sampling event, listed below:

• **December 2020**: "The laboratory control sample (LCS) for 577522 recovered outside control limits for Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported."

The above minor QA/QC issue does not affect the integrity of the data or the report conclusions included herein.

3.0 ALTERNATIVE SOURCE DEMONSTRATION FOR SELECT VOCS DETECTED IN SITE MONITORING WELLS MW1 AND MW4

None of the VOCs detected in wells MW1 and MW4 exceeded their respective interwell background standards during the December 2020 and June 2021 sampling events. However, this alternative source demonstration is included to address the presence of some specific VOC compounds.

Groundwater samples collected during the quarterly background monitoring were also analyzed for dissolved methane during the third quarter 2008 monitoring event, as reported previously in the First Year Annual Report/Technical Memorandum. Dissolved methane, a major component of landfill gas, was detected in five of the six site monitoring wells, and at the highest concentration in well MW4, located closest to the Peoples Avenue Landfill. The dissolved methane results are summarized in the table below.

Results of Dissolved	Methane Analyses	(Third Quarte	r 2008)
IXCSUIIS OF DISSUIVCU	ivicinant Analyses	i i iiii u Quai u	1 40001

Sample	Concentration of Dissolved	Reporting Limit
Location	Methane (ug/L)	(ug/L)
MW1	2.1	0.19
MW2	2.1	0.19
MW3	4.1	0.19
MW4	42	0.19
MW5	ND	0.19
MW6	1.2	0.19
MW7*	1.3	0.19
Field blank	ND	0.19
Trip blank	ND	0.19

ND = not detected at the reporting limit

3.1 Sources of Naturally Occurring Dissolved Methane

The relatively low dissolved methane concentrations in four of the wells may have been indicative of methanogenesis, a naturally occurring form of anaerobic respiration associated with certain common microbes in the presence of organic material. Subsurface soil at the site was reported in the RI report to have contained relatively high concentrations of total organic carbon (TOC). Given that the site cap has likely created subsurface anaerobic conditions, the presence of an abundant "food" source (i.e., the high TOC), it is not unreasonable to assume that methanogenesis is occurring. Therefore, the previously reported site-wide presence of relatively low concentrations of dissolved methane could indicate that natural attenuation was/is active.

^{* &}quot;blind" duplicate sample collected from MW6

3.2 Off-Site Sources of Dissolved Methane

The Peoples Avenue Landfill is located adjacent to and south/southeast of the site, and reportedly received a combination of residential, commercial, and industrial wastes. The combustible gas methane was previously detected in the basement of the adjacent pet food plant, and it was attributed to the Peoples Avenue Landfill (USEPA, 1976; RI Report, 1994). Two isolated areas with elevated combustible gas readings (i.e., methane) were also identified between the site and the Peoples Avenue Landfill during RI activities conducted in the early 1990's. Soil gas collected from these areas also contained slightly elevated concentrations of VOCs. The conclusion contained in the RI was:

"The USEPA and RI soil gas results indicate, therefore, that the Peoples Avenue Landfill may be an active source of combustible gases and, possibly, organic vapors in the Site area."

Landfill gas migration is a commonly known transport mechanism for numerous VOCs including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, vinyl chloride, and others (Vogel et al., 1987). As such, landfill gas migration has been implicated to be a principal source of many VOCs in groundwater near landfills, including those currently detected in site groundwater.

While dissolved methane was discovered in most of the site monitoring wells, the concentrations were relatively low and, therefore, are likely at least partially the result of on-site methanogenesis.

MW4

The concentrations of the previously detected VOCs in MW4 have decreased to their lowest levels since the beginning of natural attenuation monitoring, and there were no exceedances of background standards during this reporting period. However, the following alternative source demonstration is provided for informational purposes.

Given that MW4 is located adjacent to the Peoples Avenue Landfill and it previously contained, by far, the highest concentration of dissolved methane compared to the other wells, it is highly likely that landfill gas from the Peoples Avenue Landfill was the source for much, or all, of the dissolved methane in MW4. This is consistent with the previous reports documented herein. Given that landfill gas is a common carrier of numerous VOCs, including 1,1-DCA and vinyl chloride, it is fair to conclude that the elevated concentrations of compounds such as 1,1-DCA and vinyl chloride in MW4 were/are also the result of the presence of landfill gas.

It is important to note that neither 1,1-DCA nor vinyl chloride are exhibiting increasing trends in MW4, and concentrations are presently at their lowest since the beginning of natural attenuation monitoring. The total VOC load in MW4 has continued to decrease from a high of 389 ug/L in December 2007 to 36.5 ug/L during the most recent sampling event, a drop of about 91 percent.

In summary, therefore, there is no indication that groundwater conditions at MW4 are deteriorating due to the site and, in fact, groundwater conditions in this well have improved significantly based on the individual VOC trends and on total VOC load.

MW1

There were no exceedances of interwell background standards at MW-1 during this reporting period. Total VOC load in MW1 has decreased from a high of approximately 336 ug/L in June 2008 to approximately 78.5 ug/L) during the most recent sampling event, a decrease of approximately 77 percent.

It is possible that landfill gas has affected groundwater conditions in this well and have thus biased the concentration of 1,1-DCA and vinyl chloride, as indicated by the historical presence of dissolved methane in groundwater at this well. Other known (or unknown) upgradient sources may also be contributing sources. While MW1 is technically a downgradient well, it is located such that it could easily be considered sidegradient. Based on the location of MW1, it is easy to see that a plume migrating from the northeast or from the former quarry to the north could, potentially, impact MW1 while not affecting the upgradient wells.

In any case, overall groundwater conditions have clearly improved in MW1 with respect to individual VOC trends and total VOC load, and there is no indication of site-related degradation in groundwater quality at this well.

4.0 SUMMARY AND CONCLUSIONS

The results of long-term natural attenuation monitoring to date indicate the following:

- 1. There were no statistical failures for any of the site monitoring wells during this reporting period.
- 2. Changes in COC concentrations in site groundwater occur relatively slowly.
- 3. There was an interwell background exceedance for 1,1 DCA in River Well MW8. However, the concentration was below its intrawell standard and the concentration has since dropped to below the interwell standard.
 - It is reasonable to assume that "slugs" of the off-site plume may periodically migrate through the site and impact the downgradient monitoring wells, including the River Wells, possibly resulting in new "false-positive" statistical failures that will need to be addressed either by revising calculated background standards or by changing the statistical evaluation protocol (or both).
- 4. While on-site methanogenesis is likely occurring, indicating that natural attenuation is active, the relatively high (i.e., anomalous) concentrations of dissolved methane previously detected in downgradient well MW4 appear to be have been the result of landfill gas migration from the Peoples Avenue Landfill. It is likely that the associated relatively high concentrations of 1,1-DCA and vinyl chloride in MW4 were also the result of the presence of landfill gas and were not site-related. The presence of these compounds in other site wells may also have been biased high due to the presence of landfill gas. In any case, the concentrations of those compounds have since decreased significantly in MW4, and they are currently below background standards.
- 5. Total (i.e., cumulative) COC load in the downgradient wells has decreased approximately 78% since natural attenuation monitoring began in 2007. Similarly, the cumulative concentrations of TCE and 1,1,1-TCA have also decreased by approximately 81% since natural attenuation monitoring began.
- 6. Stable to decreasing trends are apparent for all COCs at all monitoring wells with the exception of PCE at MW5 and MW6 (upgradient wells) and MW2 (a downgradient well). PCE concentrations at MW2 track closely to (but are lower than) MW5 and MW6, indicating that an upgradient "slug" of PCE is migrating from an upgradient source and beneath the site.
- 7. Possibly the most meaningful observation of the groundwater data is that the cumulative COC load in the upgradient wells continues to be higher than in the downgradient wells, most notably with respect to the primary VOC load contributors, PCE and TCE. The same can generally be said for the other COCs with the exception of vinyl chloride, whose presence in downgradient site wells can be attributed to a combination of chlorinated solvent degradation from off-site sources and/or off-site contribution from the adjacent Peoples Avenue Landfill. The elevated concentration of COCs in

upgradient site wells vs. downgradient site wells indicates that there is no <u>site-related</u> groundwater degradation in either the site monitoring wells or in the river wells. At this time, our groundwater monitoring efforts seem to primarily track the migration of COC concentrations in groundwater from upgradient, off-site sources as they migrate beneath the site, which was not purpose of the groundwater monitoring obligation in the Consent Decree.

5.0 RECOMMENDATIONS

After nearly 15 years of natural attenuation monitoring, there is clear evidence that the site is no longer contributing to groundwater degradation. In fact, groundwater quality has been steadily improving in spite of the presence of several known (and presently uncontrolled) upgradient sources. In the absence of groundwater degradation attributed to the site, the following recommendations are proposed:

- 1. The SVE system should be excluded from further consideration as a contingent remedy and the land/soil remediation at the site should be recognized as complete. This was addressed in the Five Year Review questionnaire that was completed in support of the most recent U.S. EPA Five Year Review.
- 2. The groundwater monitoring frequency should be reduced to once every five years, to support ongoing U.S. EPA five-year reviews. The IPC Settling Defendants believe that this recommendation is reasonable given that the groundwater impacts at the site have been shown to change slowly and, more importantly, appear to be caused by off-site sources. This request for a change in monitoring frequency is consistent with the approved Remedial Design/Remedial Action Statement of Work, which states the following:

"2.4 Groundwater Monitoring

The groundwater monitoring program will be initiated after completion of Site closure activities. The groundwater monitoring program will be comprised of eight shallow aquifer wells; specifically, six site wells and two wells farther downgradient of the Site (the "river" wells). Quarterly groundwater monitoring will be conducted for the first four quarters after completion of the engineered barrier, and semi-annually thereafter. At the five year review, the PRPs may petition to reduce the monitoring frequency. The IEPA is expected to accept the petition if the sampling data indicate that the Site is not contributing releases to the shallow aquifer."

3. The State and IPC Settling Defendants should begin conversations to determine how the Consent Decree can be updated to recognize that degradation in groundwater at the site is due to upgradient sources and that long-term monitoring of groundwater degradation caused by others should not be the responsibility of the IPC Settling Defendants.

We look forward to the IEPA's approval of this report. If you have any questions, please do not hesitate to call me at 630 699-5881.

Sincerely,

ENVIRONMENTAL INFORMATION LOGISTICS, LLC

A. Michael Hirt, P.G.

Senior Geologist

6.0 REFERENCES

Golder Associates, Inc., 1994, Final Remedial Investigation Report, Interstate Pollution Control Inc. Site, Rockford, Illinois.

USEPA, 1976, Leachate Damage Assessment: Case Study of the Peoples Avenue Landfill Solid Waste Disposal Site in Rockford, Illinois, EPA/530/SW-517.

Vogel et al., 1987, *Transformation of Halogenated Aliphatic Compounds*, Environmental Science Technology, vol. 21, pp. 722-736.

Table 1 December 2020 Through June 2021 Data Summary IPC/Roto-Rooter Site

					Koto-Kootei								
				Interwell	Intrawell		Dec	-20	Dec-	-20	Jun	-21	Į l
				Upper	Upper	Federal							
				Limit	Limit	MCL							June 2021
Well	Location	Parameter	Units	(95%)	(99%)		Result	Qual	Result	Qual	Result	Qual	Exceedance?
MW1	Downgradient	1,1,1-Trichloroethane	ug/L	52.5	25.1	200	5	U	NA		5	U	No
MW1	Downgradient	1,1-Dichloroethane	ug/L	17	24.0	NA	5	U	NA		5	U	No
MW1	Downgradient	1,1-Dichloroethene	ug/L	32.9	21.1	7	5	U	NA		5	U	No
MW1	Downgradient	cis-1,2-Dichloroethene	ug/L	250	295	70	34		NA		41		No
MW1	Downgradient	Tetrachloroethene	ug/L	65.2	5.6	5	5	U	NA		6.1		No
MW1	Downgradient	Trichloroethene	ug/L	340	324	5	5.5		NA		8.3		No
MW1	Downgradient	Vinyl Chloride	ug/L	48	10.4	2	9.9		NA		8.1		No
MW2	Downgradient	1,1,1-Trichloroethane	ug/L	52.5	39.3	200	5	U	NA		5	U	No
MW2	Downgradient	1,1-Dichloroethane	ug/L	17	5.4	NA	5	U	NA		5	U	No
MW2	Downgradient	1,1-Dichloroethene	ug/L	32.9	30.6	7	5	U	NA		5	U	No
MW2	Downgradient	cis-1,2-Dichloroethene	ug/L	250	131	70	5	U	NA		5	U	No
MW2	Downgradient	Tetrachloroethene	ug/L	65.2	23.1	5	36		NA		45		No
MW2	Downgradient	Trichloroethene	ug/L	340	293	5	44		NA		44		No
MW2	Downgradient	Vinyl Chloride	ug/L	48	10.0	2	2	U	NA		2	U	No
MW3	Upgradient	1,1,1-Trichloroethane	ug/L	52.5	45.5	200	5	U	NA		5	U	No
MW3	Upgradient	1,1-Dichloroethane	ug/L	17	17	NA	5	U	NA		5	U	No
MW3	Upgradient	1,1-Dichloroethene	ug/L	32.9	36.3	7	5	U	NA		5	U	No
MW3	Upgradient	cis-1,2-Dichloroethene	ug/L	250	126	70	5	U	NA		5	U	No
MW3	Upgradient	Tetrachloroethene	ug/L	65.2	90.3	5	32		NA		46		No
MW3	Upgradient	Trichloroethene	ug/L	340	310	5	39	T.	NA		43	T.1	No
MW3	Upgradient	Vinyl Chloride	ug/L	48	2.0	2	2	U	NA		2	U	No
MW4	Downgradient	1,1,1-Trichloroethane	ug/L	52.5	47.2	200	5	U	NA		5	U	No
MW4	Downgradient	1,1-Dichloroethane	ug/L	17	69.9	NA	5	U	NA		5.1		No
MW4	Downgradient	1,1-Dichloroethene	ug/L	32.9	33.0	7	5	U	NA		5	U	No
MW4	Downgradient	cis-1,2-Dichloroethene	ug/L	250	461	70	6.0		NA NA		5.3	U	No No
MW4	Downgradient	Tetrachloroethene	ug/L	65.2	5.0	5	5	U			5	U	
MW4	Downgradient	Trichloroethene	ug/L	340	5.0	5	5	U	NA		5	U	No
MW4	Downgradient	Vinyl Chloride	ug/L	48	137	2	6.1	* * *	NA		6.6	***	No
MW5 MW5	Upgradient	1,1,1-Trichloroethane 1.1-Dichloroethane	ug/L	52.5 17	78.5 25.8	200 NA	5 7.8	U	NA NA		5	U	No No
MW5	Upgradient Upgradient	1,1-Dichloroethene	ug/L	32.9	34.0	7 7	5	U	NA NA		5	U	No
MW5	Upgradient	cis-1,2-Dichloroethene	ug/L ug/L	250	519	70	40	U	NA		5	U	No
MW5	Upgradient	Tetrachloroethene	ug/L ug/L	65.2	75.7	5	47		NA		60	U	No
MW5	Upgradient	Trichloroethene	ug/L ug/L	340	390	5	100		NA		32		No
MW5	Upgradient	Vinyl Chloride	ug/L ug/L	48	15.0	2	3.2		NA		2	U	No
MW6	Upgradient	1,1,1-Trichloroethane	ug/L	52.5	71.3	200	5	U	NA		5	U	No
MW6	Upgradient	1,1-Dichloroethane	ug/L	17	42.1	NA	15		NA		5	Ü	No
MW6	Upgradient	1,1-Dichloroethene	ug/L	32.9	36.5	7	5	U	NA		5	U	No
MW6	Upgradient	cis-1,2-Dichloroethene	ug/L	250	352	70	15		NA		11		No
MW6	Upgradient	Tetrachloroethene	ug/L	65.2	58.9	5	46		NA		38		No
MW6	Upgradient	Trichloroethene	ug/L	340	220	5	29		NA		19		No
MW6	Upgradient	Vinyl Chloride	ug/L	48	104	2	7.2		NA		7.5		No
MW8	Downgradient	1,1,1-Trichloroethane	ug/L	52.5	30.2	200	5	U	NA		5	U	No
MW8	Downgradient	1,1-Dichloroethane	ug/L	17	34.0	NA	19		24		15		No
MW8	Downgradient	1,1-Dichloroethene	ug/L	32.9	14.1	7	5	U	NA		5	U	No
MW8	Downgradient	cis-1,2-Dichloroethene	ug/L	250	78.2	70	8.0		NA		8.5		No
MW8	Downgradient	Tetrachloroethene	ug/L	65.2	5.0	5	5.4		NA		7.7		No
MW8	Downgradient	Trichloroethene	ug/L	340	171	5	12		NA		12		No
MW8	Downgradient	Vinyl Chloride	ug/L	48	2.0	2	2	U	NA		2	U	No
MW9	Downgradient	1,1,1-Trichloroethane	ug/L	52.5	5.0	200	5	U	NA		5	U	No
MW9	Downgradient	1,1-Dichloroethane	ug/L	17	5.0	NA	5	U	NA		5	U	No
MW9	Downgradient	1,1-Dichloroethene	ug/L	32.9	5.0	7	5	U	NA		5	U	No
MW9	Downgradient	cis-1,2-Dichloroethene	ug/L	250	5.0	70	5	U	NA		5	U	No
MW9	Downgradient	Tetrachloroethene	ug/L	65.2	5.0	5	5	U	NA		5	U	No
MW9	Downgradient	Trichloroethene	ug/L	340	5.0	5	5	U	NA		5	U	No
MW9	Downgradient	Vinyl Chloride	ug/L	48	2.0	2	2	U	NA		2	U	No
	g.uu.ent	, , ,											- 10

All data reported in ug/L.

NA - Not Applicable / U - Not Detected

Values shown in **bold** and shaded represent exceedances of calculated background standards.

Interwell and Intrawell limits calculated using background data collected: Sep. 2007, Dec. 2007, Mar. 2008, and Jun. 2008. **Except for the following:**

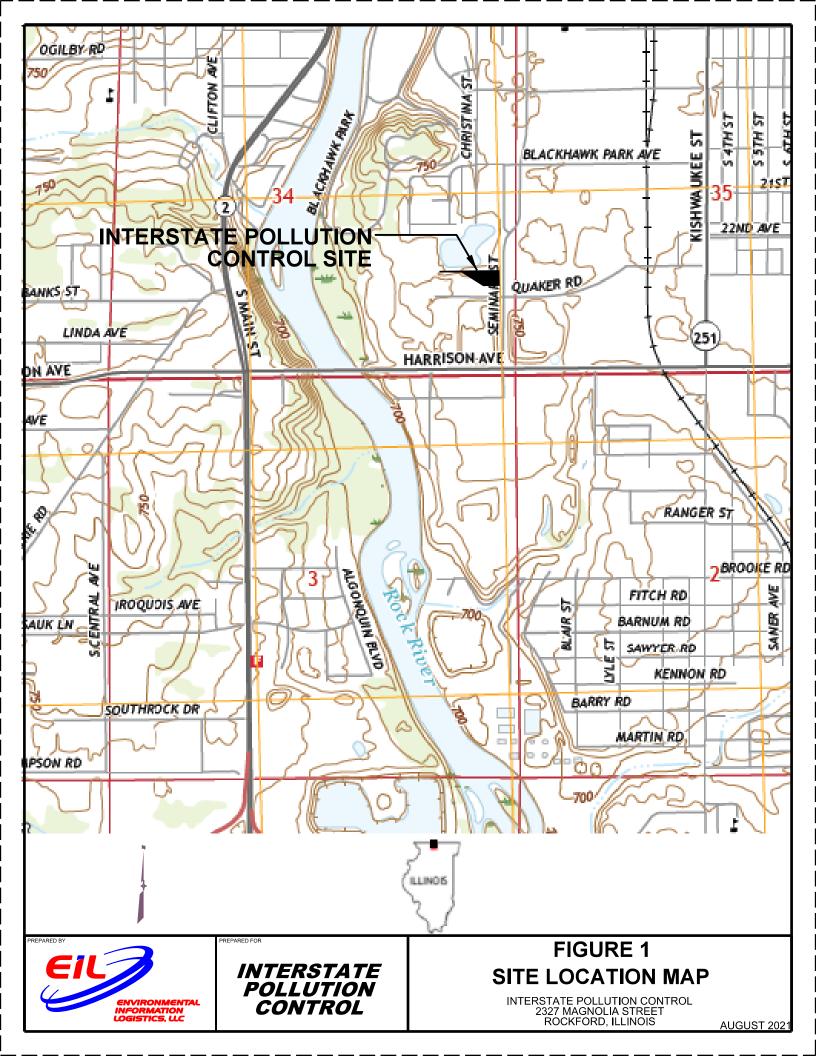
Interwell limits for trichloroethene collected: Dec. 2007, Jun. 2008, Dec. 2008, and Jun. 2009

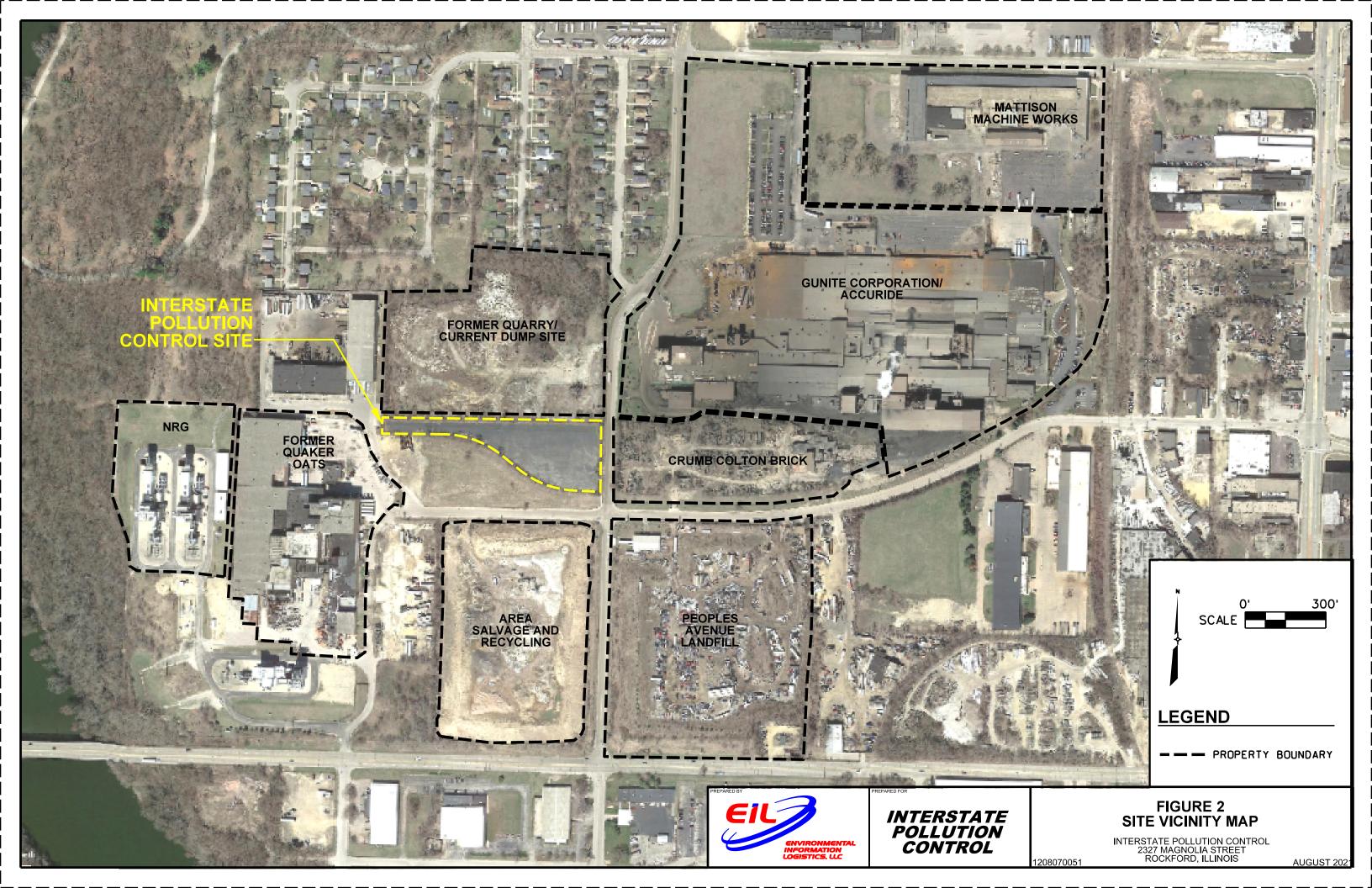
Interwell limits for 1,1-DCA and tetrachloroethene collected: Dec. 2017, Jun. 2018, Dec. 2018, and Jun. 2019.

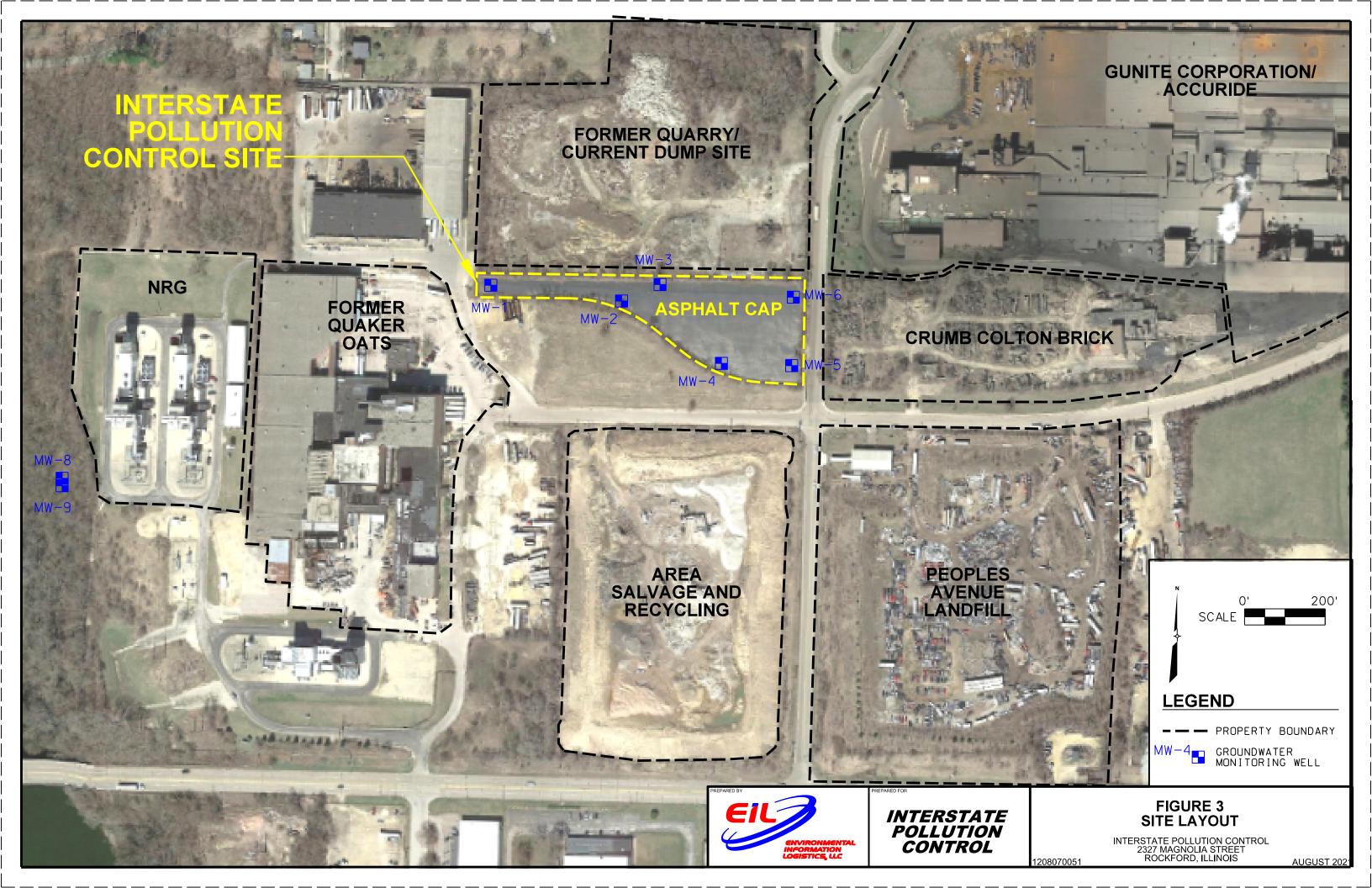
Intrawell limits for trichloroethene (MW6) collected: Dec. 2007, Jun. 2008, Dec. 2008, and Jun. 2009.

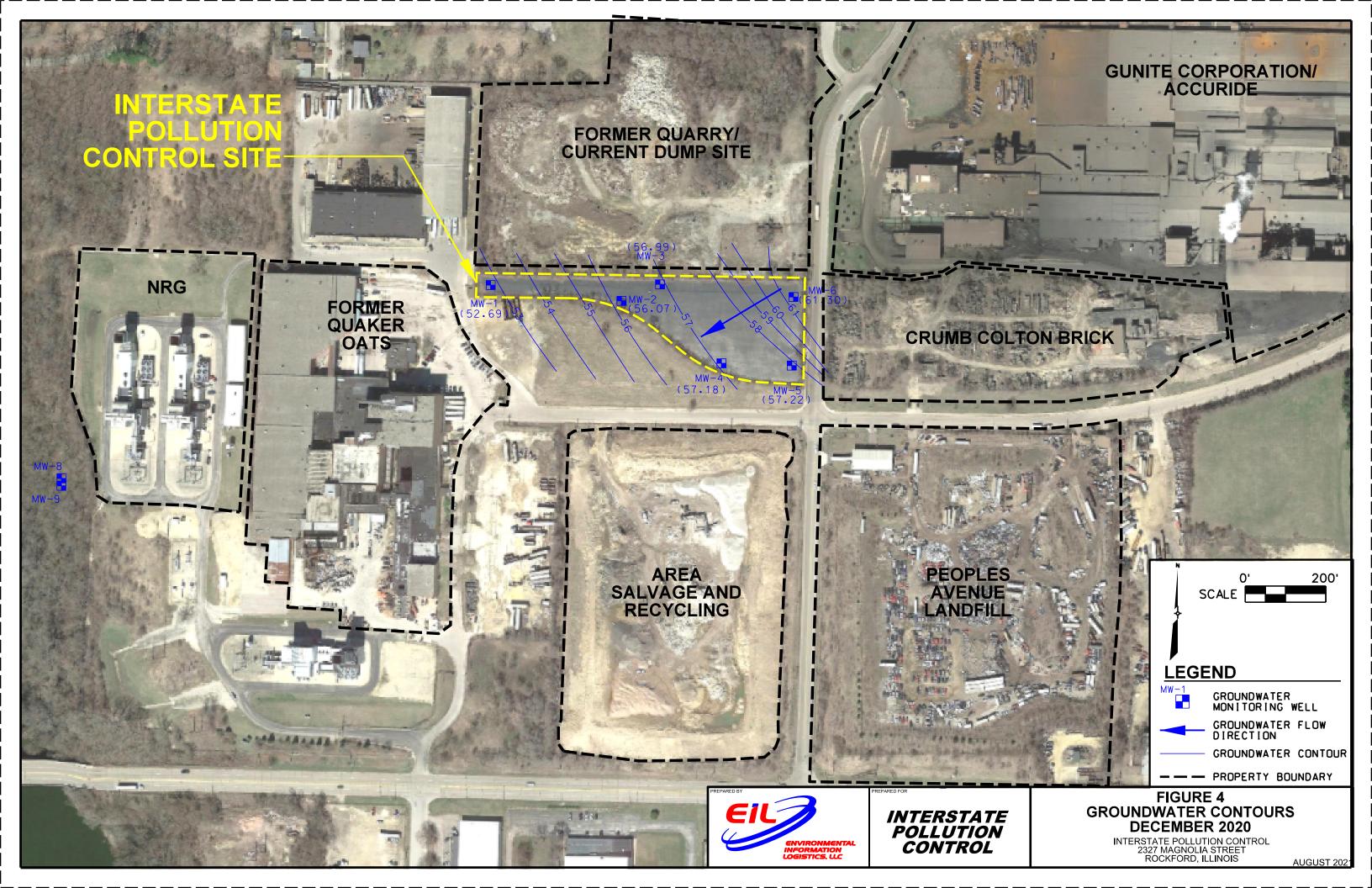
Intrawell limits for 1,1-DCA and tetrachloroethene (MW3); tetrachloroethene (MW6) collected: Dec.2017, Jun. 2018, Dec. 2018, and

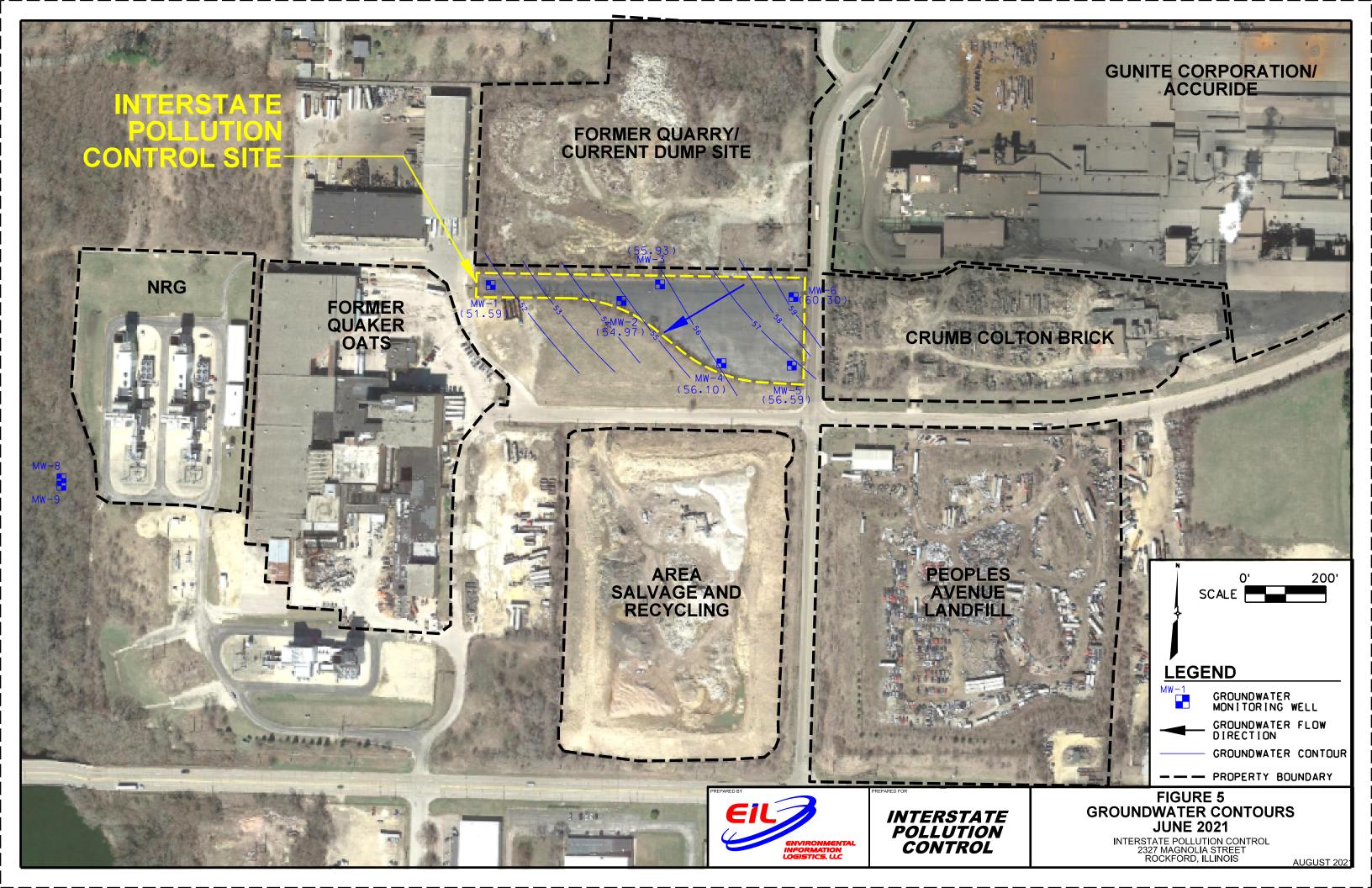
Intrawell limits for all parameters (MW8 and MW9) collected: Mar. 2009, Jun. 2009, Sep. 2009, and Dec. 2009.











Attachment 1

Laboratory Data Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

Laboratory Job ID: 500-192266-1

Client Project/Site: Interstate Pollution Control Site

For:

Environmental Information Logistics (EIL 534 Duane Street Glen Ellyn, Illinois 60137

Attn: Ms. Mary Pearson

Lill khym

Authorized for release by: 12/22/2020 10:04:55 AM

Richard Wright, Senior Project Manager (708)746-0045

Richard.Wright@Eurofinset.com

----- LINKS -----

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Total Access

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Job ID: 500-192266-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192266-1

Receipt

The samples were received on 12/10/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9° C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC and logged.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 577522 recovered outside control limits for Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.IPC GW MW 6 (500-192266-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Lab Sample ID: 500-192266-2

Lab Sample ID: 500-192266-3

Lab Sample ID: 500-192266-4

Lab Sample ID: 500-192266-5

Lab Sample ID: 500-192266-6

Lab Sample ID: 500-192266-7

Lab Sample ID: 500-192266-8

Client Sample ID: IPC GW MW 1	Lab Sample ID: 500-192266-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	9.9		2.0	0.20	ug/L	1	_	8260B	Total/NA
cis-1,2-Dichloroethene	34		5.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	5.5		5.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: IPC GW MW 2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	44	5.0	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene	36	5.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: IPC GW MW 3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	39		5.0	0.16	ug/L	1	_	8260B	Total/NA
Tetrachloroethene	32		5.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: IPC GW MW 4

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Metho	od Prep Ty	/pe
Vinyl chloride	6.1	2.0	0.20	ug/L	1	8260E	Total/NA	4
cis-1,2-Dichloroethene	6.0	5.0	0.41	ug/L	1	8260E	3 Total/NA	4

Client Sample ID: IPC GW MW 5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Vinyl chloride	3.2	2.0	0.20	ug/L	1	_ ;	8260B	Total/NA
1,1-Dichloroethane	7.8	5.0	0.41	ug/L	1	;	8260B	Total/NA
cis-1,2-Dichloroethene	40	5.0	0.41	ug/L	1	;	8260B	Total/NA
Trichloroethene	100	5.0	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene	47	5.0	0.37	ug/L	1	;	8260B	Total/NA

Client Sample ID: IPC GW MW 6

Analyte	Result Qualifi	er RL	MDL	Unit	Dil Fac	D Method	Prep Type
Vinyl chloride	7.2	2.0	0.20	ug/L	1	8260B	Total/NA
1,1-Dichloroethane	15	5.0	0.41	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	15	5.0	0.41	ug/L	1	8260B	Total/NA
Trichloroethene	29	5.0	0.16	ug/L	1	8260B	Total/NA
Tetrachloroethene	46	5.0	0.37	ug/L	1	8260B	Total/NA

Client Sample ID: IPC GW MW 7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Vinyl chloride		2.0	0.20	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	36	5.0	0.41	ug/L	1	8260B	Total/NA
Trichloroethene	5.7	5.0	0.16	ug/L	1	8260B	Total/NA

Client Sample ID: IPC GW MW 8

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	19	5.0	0.41	ug/L	1	_	8260B	Total/NA
cis-1,2-Dichloroethene	8.0	5.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	12	5.0	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene	5.4	5.0	0.37	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

12/22/2020

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Detection Summary

Project/Site: Interstate Pollution Control Site	
Client Sample ID: IPC GW MW 9	Lab Sample ID: 500-192266-9
No Detections.	
Client Sample ID: IPC GW FB	Lab Sample ID: 500-192266-10
No Detections.	
Client Sample ID: Trip Blank	Lab Sample ID: 500-192266-11

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Job ID: 500-192266-1

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Client: Environmental Information Logistics (EIL

No Detections.

Method Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset I
00-192266-1	IPC GW MW 1	Water	12/09/20 12:55	12/10/20 10:20	
00-192266-2	IPC GW MW 2	Water	12/09/20 12:25	12/10/20 10:20	
00-192266-3	IPC GW MW 3	Water	12/09/20 11:45	12/10/20 10:20	
00-192266-4	IPC GW MW 4	Water	12/09/20 11:05	12/10/20 10:20	
00-192266-5	IPC GW MW 5	Water	12/09/20 10:05	12/10/20 10:20	
00-192266-6	IPC GW MW 6	Water	12/09/20 10:35	12/10/20 10:20	
00-192266-7	IPC GW MW 7	Water	12/09/20 09:20	12/10/20 10:20	
00-192266-8	IPC GW MW 8	Water	12/09/20 08:50	12/10/20 10:20	
00-192266-9	IPC GW MW 9	Water	12/09/20 09:03	12/10/20 10:20	
00-192266-10	IPC GW FB	Water	12/09/20 13:00	12/10/20 10:20	
00-192266-11	Trip Blank	Water	12/09/20 00:00	12/10/20 10:20	

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-1

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 1

Date Collected: 12/09/20 12:55 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	-			12/17/20 02:51	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/17/20 02:51	1
Vinyl chloride	9.9		2.0	0.20	ug/L			12/17/20 02:51	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/17/20 02:51	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/17/20 02:51	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/17/20 02:51	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/17/20 02:51	1
Acetone	<20		20	1.7	ug/L			12/17/20 02:51	1
Methylene Chloride	<10		10	1.6	ug/L			12/17/20 02:51	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/17/20 02:51	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/17/20 02:51	1
cis-1,2-Dichloroethene	34		5.0	0.41				12/17/20 02:51	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/17/20 02:51	1
Chloroform	<5.0		5.0	0.37	ug/L			12/17/20 02:51	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/17/20 02:51	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/17/20 02:51	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/17/20 02:51	1
Trichloroethene	5.5		5.0	0.16	ug/L			12/17/20 02:51	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/17/20 02:51	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/17/20 02:51	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/17/20 02:51	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/17/20 02:51	1
Toluene	<5.0		5.0	0.15	ug/L			12/17/20 02:51	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/17/20 02:51	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/17/20 02:51	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			12/17/20 02:51	1
2-Hexanone	<20		20	1.6	ug/L			12/17/20 02:51	1
Dibromochloromethane	<5.0		5.0	0.49				12/17/20 02:51	1
Chlorobenzene	<5.0		5.0	0.39	-			12/17/20 02:51	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/17/20 02:51	1
Styrene	<5.0		5.0	0.39	ug/L			12/17/20 02:51	1
Bromoform	<5.0		5.0	0.48	ug/L			12/17/20 02:51	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/17/20 02:51	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/17/20 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126			•		12/17/20 02:51	1
Toluene-d8 (Surr)	105		75 - 120					12/17/20 02:51	1
4-Bromofluorobenzene (Surr)	120		72 - 124					12/17/20 02:51	1
Dibromofluoromethane	91		75 - 120					12/17/20 02:51	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-2

Matrix: Water

Job ID: 500-192266-1

Client Sample	e ID:	IPC	GW	MW 2
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Date Collected: 12/09/20 12:25 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/21/20 15:24	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/21/20 15:24	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/21/20 15:24	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/21/20 15:24	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/21/20 15:24	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/21/20 15:24	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/21/20 15:24	1
Acetone	<20		20	1.7	ug/L			12/21/20 15:24	1
Methylene Chloride	<10		10	1.6	ug/L			12/21/20 15:24	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/21/20 15:24	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/21/20 15:24	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			12/21/20 15:24	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/21/20 15:24	1
Chloroform	<5.0		5.0	0.37	ug/L			12/21/20 15:24	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/21/20 15:24	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/21/20 15:24	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/21/20 15:24	1
Trichloroethene	44		5.0	0.16	ug/L			12/21/20 15:24	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/21/20 15:24	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/21/20 15:24	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/21/20 15:24	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/21/20 15:24	1
Toluene	<5.0		5.0	0.15	ug/L			12/21/20 15:24	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/21/20 15:24	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/21/20 15:24	1
Tetrachloroethene	36		5.0	0.37	ug/L			12/21/20 15:24	1
2-Hexanone	<20		20	1.6	ug/L			12/21/20 15:24	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/21/20 15:24	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/21/20 15:24	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/21/20 15:24	1
Styrene	<5.0		5.0	0.39	ug/L			12/21/20 15:24	1
Bromoform	<5.0		5.0	0.48	ug/L			12/21/20 15:24	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/21/20 15:24	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/21/20 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126					12/21/20 15:24	1
Toluene-d8 (Surr)	94		75 - 120					12/21/20 15:24	1
4-Bromofluorobenzene (Surr)	95		72 - 124					12/21/20 15:24	1
Dibromofluoromethane	90		75 - 120					12/21/20 15:24	1

Eurofins TestAmerica, Chicago

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-3

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 3

Date Collected: 12/09/20 11:45 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/21/20 15:51	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/21/20 15:51	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/21/20 15:51	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/21/20 15:51	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/21/20 15:51	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/21/20 15:51	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/21/20 15:51	1
Acetone	<20		20	1.7	ug/L			12/21/20 15:51	1
Methylene Chloride	<10		10	1.6	ug/L			12/21/20 15:51	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/21/20 15:51	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/21/20 15:51	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			12/21/20 15:51	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/21/20 15:51	1
Chloroform	<5.0		5.0	0.37	ug/L			12/21/20 15:51	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/21/20 15:51	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/21/20 15:51	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/21/20 15:51	1
Trichloroethene	39		5.0	0.16	ug/L			12/21/20 15:51	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/21/20 15:51	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/21/20 15:51	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/21/20 15:51	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/21/20 15:51	1
Toluene	<5.0		5.0	0.15	ug/L			12/21/20 15:51	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/21/20 15:51	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/21/20 15:51	1
Tetrachloroethene	32		5.0	0.37	ug/L			12/21/20 15:51	1
2-Hexanone	<20		20	1.6	ug/L			12/21/20 15:51	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/21/20 15:51	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/21/20 15:51	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/21/20 15:51	1
Styrene	<5.0		5.0	0.39	ug/L			12/21/20 15:51	1
Bromoform	<5.0		5.0	0.48	ug/L			12/21/20 15:51	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/21/20 15:51	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/21/20 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 126			•		12/21/20 15:51	1
Toluene-d8 (Surr)	93		75 - 120					12/21/20 15:51	1
4-Bromofluorobenzene (Surr)	96		72 - 124					12/21/20 15:51	1
Dibromofluoromethane	92		75 - 120					12/21/20 15:51	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-4

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 4

Date Collected: 12/09/20 11:05 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/17/20 04:06	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/17/20 04:06	1
Vinyl chloride	6.1		2.0	0.20	ug/L			12/17/20 04:06	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/17/20 04:06	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/17/20 04:06	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/17/20 04:06	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/17/20 04:06	1
Acetone	<20		20	1.7	ug/L			12/17/20 04:06	1
Methylene Chloride	<10		10	1.6	ug/L			12/17/20 04:06	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/17/20 04:06	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/17/20 04:06	1
cis-1,2-Dichloroethene	6.0		5.0	0.41	ug/L			12/17/20 04:06	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/17/20 04:06	1
Chloroform	<5.0		5.0	0.37	ug/L			12/17/20 04:06	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/17/20 04:06	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/17/20 04:06	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/17/20 04:06	1
Trichloroethene	<5.0		5.0	0.16	ug/L			12/17/20 04:06	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/17/20 04:06	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/17/20 04:06	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/17/20 04:06	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/17/20 04:06	1
Toluene	<5.0		5.0	0.15	ug/L			12/17/20 04:06	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/17/20 04:06	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/17/20 04:06	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			12/17/20 04:06	1
2-Hexanone	<20		20	1.6	ug/L			12/17/20 04:06	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/17/20 04:06	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/17/20 04:06	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/17/20 04:06	1
Styrene	<5.0		5.0	0.39	ug/L			12/17/20 04:06	1
Bromoform	<5.0		5.0	0.48	ug/L			12/17/20 04:06	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/17/20 04:06	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/17/20 04:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126			-		12/17/20 04:06	1
Toluene-d8 (Surr)	107		75 - 120					12/17/20 04:06	1
4-Bromofluorobenzene (Surr)	124		72 - 124					12/17/20 04:06	1
Dibromofluoromethane	91		75 - 120					12/17/20 04:06	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-5

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 5

Date Collected: 12/09/20 10:05 Date Received: 12/10/20 10:20

	Result Qua	lifier RL	MDL	Oilit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0	5.0	0.15	ug/L		-	12/17/20 04:30	1
Chloromethane	<5.0	5.0	0.32	ug/L			12/17/20 04:30	1
Vinyl chloride	3.2	2.0	0.20	ug/L			12/17/20 04:30	1
Bromomethane	<5.0	5.0	0.80	ug/L			12/17/20 04:30	1
Chloroethane	<5.0	5.0	0.51	ug/L			12/17/20 04:30	1
1,1-Dichloroethene	<5.0	5.0	0.39	ug/L			12/17/20 04:30	1
Carbon disulfide	<5.0	5.0	0.45	ug/L			12/17/20 04:30	1
Acetone	<20	20	1.7	ug/L			12/17/20 04:30	1
Methylene Chloride	<10	10	1.6	ug/L			12/17/20 04:30	1
trans-1,2-Dichloroethene	<5.0	5.0	0.35	ug/L			12/17/20 04:30	1
1,1-Dichloroethane	7.8	5.0	0.41	ug/L			12/17/20 04:30	1
cis-1,2-Dichloroethene	40	5.0	0.41	ug/L			12/17/20 04:30	1
Methyl Ethyl Ketone	<20	20	2.1	ug/L			12/17/20 04:30	1
Chloroform	<5.0	5.0	0.37	ug/L			12/17/20 04:30	1
1,1,1-Trichloroethane	<5.0	5.0	0.38	ug/L			12/17/20 04:30	1
Carbon tetrachloride	<5.0	5.0	0.38	ug/L			12/17/20 04:30	1
1,2-Dichloroethane	<5.0	5.0	0.39	ug/L			12/17/20 04:30	1
Trichloroethene	100	5.0	0.16	ug/L			12/17/20 04:30	1
1,2-Dichloropropane	<5.0	5.0	0.43	ug/L			12/17/20 04:30	1
Bromodichloromethane	<5.0	5.0	0.37	ug/L			12/17/20 04:30	1
cis-1,3-Dichloropropene	<5.0	5.0	0.42				12/17/20 04:30	1
methyl isobutyl ketone	<20	20	2.2	ug/L			12/17/20 04:30	1
Toluene	<5.0	5.0	0.15	ug/L			12/17/20 04:30	1
trans-1,3-Dichloropropene	<5.0	5.0	0.36	ug/L			12/17/20 04:30	1
1,1,2-Trichloroethane	<5.0	5.0	0.35	ug/L			12/17/20 04:30	1
Tetrachloroethene	47	5.0	0.37	ug/L			12/17/20 04:30	1
2-Hexanone	<20	20	1.6	ug/L			12/17/20 04:30	1
Dibromochloromethane	<5.0	5.0	0.49	ug/L			12/17/20 04:30	1
Chlorobenzene	<5.0	5.0	0.39	ug/L			12/17/20 04:30	1
Ethylbenzene	<5.0	5.0	0.18	ug/L			12/17/20 04:30	1
Styrene	<5.0	5.0	0.39	ug/L			12/17/20 04:30	1
Bromoform	<5.0	5.0	0.48	ug/L			12/17/20 04:30	1
1,1,2,2-Tetrachloroethane	<5.0	5.0	0.40	ug/L			12/17/20 04:30	1
Xylenes, Total	<5.0	5.0	0.22				12/17/20 04:30	1
Surrogate	%Recovery Qua	lifier Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109	75 - 126					12/17/20 04:30	1
Toluene-d8 (Surr)	105	75 - 120					12/17/20 04:30	1
4-Bromofluorobenzene (Surr)	124	72 - 124					12/17/20 04:30	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-6

ID Sample ID. 500-192200-0

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 6

Date Collected: 12/09/20 10:35 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/19/20 04:10	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/19/20 04:10	1
Vinyl chloride	7.2		2.0	0.20	ug/L			12/19/20 04:10	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/19/20 04:10	1
Chloroethane	<5.0	*+	5.0	0.51	ug/L			12/19/20 04:10	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/19/20 04:10	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/19/20 04:10	1
Acetone	<20		20	1.7	ug/L			12/19/20 04:10	1
Methylene Chloride	<10		10	1.6	ug/L			12/19/20 04:10	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/19/20 04:10	1
1,1-Dichloroethane	15		5.0	0.41	ug/L			12/19/20 04:10	1
cis-1,2-Dichloroethene	15		5.0	0.41	ug/L			12/19/20 04:10	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/19/20 04:10	1
Chloroform	<5.0		5.0	0.37	ug/L			12/19/20 04:10	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/19/20 04:10	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/19/20 04:10	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/19/20 04:10	1
Trichloroethene	29		5.0	0.16	ug/L			12/19/20 04:10	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/19/20 04:10	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/19/20 04:10	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/19/20 04:10	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/19/20 04:10	1
Toluene	<5.0		5.0	0.15	ug/L			12/19/20 04:10	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/19/20 04:10	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/19/20 04:10	1
Tetrachloroethene	46		5.0	0.37	ug/L			12/19/20 04:10	1
2-Hexanone	<20		20	1.6	ug/L			12/19/20 04:10	1
Dibromochloromethane	<5.0		5.0	0.49				12/19/20 04:10	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/19/20 04:10	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/19/20 04:10	1
Styrene	<5.0		5.0	0.39	•			12/19/20 04:10	1
Bromoform	<5.0		5.0	0.48	ug/L			12/19/20 04:10	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/19/20 04:10	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/19/20 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 126					12/19/20 04:10	1
Toluene-d8 (Surr)	95		75 - 120					12/19/20 04:10	1
4-Bromofluorobenzene (Surr)	89		72 - 124					12/19/20 04:10	1
Dibromofluoromethane	117		75 - 120					12/19/20 04:10	1

12/22/2020

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-7

Matrix: Water

Job ID: 500-192266-1

Client Samp	le ID:	IPC G	N MW 7
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Date Collected: 12/09/20 09:20 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/17/20 05:20	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/17/20 05:20	1
Vinyl chloride	10		2.0	0.20	ug/L			12/17/20 05:20	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/17/20 05:20	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/17/20 05:20	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/17/20 05:20	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/17/20 05:20	1
Acetone	<20		20	1.7	ug/L			12/17/20 05:20	1
Methylene Chloride	<10		10	1.6	ug/L			12/17/20 05:20	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/17/20 05:20	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/17/20 05:20	1
cis-1,2-Dichloroethene	36		5.0	0.41	ug/L			12/17/20 05:20	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/17/20 05:20	1
Chloroform	<5.0		5.0	0.37	ug/L			12/17/20 05:20	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/17/20 05:20	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/17/20 05:20	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/17/20 05:20	1
Trichloroethene	5.7		5.0	0.16	ug/L			12/17/20 05:20	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/17/20 05:20	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/17/20 05:20	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/17/20 05:20	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/17/20 05:20	1
Toluene	<5.0		5.0	0.15	ug/L			12/17/20 05:20	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/17/20 05:20	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/17/20 05:20	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			12/17/20 05:20	1
2-Hexanone	<20		20	1.6	ug/L			12/17/20 05:20	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/17/20 05:20	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/17/20 05:20	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/17/20 05:20	1
Styrene	<5.0		5.0	0.39	ug/L			12/17/20 05:20	1
Bromoform	<5.0		5.0	0.48	ug/L			12/17/20 05:20	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/17/20 05:20	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/17/20 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 126			-		12/17/20 05:20	1
Toluene-d8 (Surr)	106		75 - 120					12/17/20 05:20	1
4-Bromofluorobenzene (Surr)	122		72 - 124					12/17/20 05:20	1
Dibromofluoromethane	93		75 - 120					12/17/20 05:20	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-8

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 8

Date Collected: 12/09/20 08:50 Date Received: 12/10/20 10:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/17/20 05:46	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/17/20 05:46	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/17/20 05:46	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/17/20 05:46	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/17/20 05:46	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/17/20 05:46	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/17/20 05:46	1
Acetone	<20		20	1.7	ug/L			12/17/20 05:46	1
Methylene Chloride	<10		10	1.6	ug/L			12/17/20 05:46	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/17/20 05:46	1
1,1-Dichloroethane	19		5.0	0.41	ug/L			12/17/20 05:46	1
cis-1,2-Dichloroethene	8.0		5.0	0.41	ug/L			12/17/20 05:46	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/17/20 05:46	1
Chloroform	<5.0		5.0	0.37	ug/L			12/17/20 05:46	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/17/20 05:46	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/17/20 05:46	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/17/20 05:46	1
Trichloroethene	12		5.0	0.16	ug/L			12/17/20 05:46	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/17/20 05:46	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/17/20 05:46	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/17/20 05:46	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/17/20 05:46	1
Toluene	<5.0		5.0	0.15	ug/L			12/17/20 05:46	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/17/20 05:46	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/17/20 05:46	1
Tetrachloroethene	5.4		5.0	0.37	ug/L			12/17/20 05:46	1
2-Hexanone	<20		20	1.6	ug/L			12/17/20 05:46	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/17/20 05:46	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/17/20 05:46	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/17/20 05:46	1
Styrene	<5.0		5.0	0.39	ug/L			12/17/20 05:46	1
Bromoform	<5.0		5.0	0.48	ug/L			12/17/20 05:46	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/17/20 05:46	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/17/20 05:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 126			·		12/17/20 05:46	1
Toluene-d8 (Surr)	107		75 - 120					12/17/20 05:46	1
4-Bromofluorobenzene (Surr)	123		72 - 124					12/17/20 05:46	1
Dibromofluoromethane	92		75 - 120					12/17/20 05:46	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-9

Matrix: Water

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 9

Date Collected: 12/09/20 09:03 Date Received: 12/10/20 10:20

Dibromofluoromethane

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/17/20 06:11	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/17/20 06:11	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/17/20 06:11	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/17/20 06:11	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/17/20 06:11	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/17/20 06:11	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/17/20 06:11	1
Acetone	<20		20	1.7	ug/L			12/17/20 06:11	1
Methylene Chloride	<10		10	1.6	ug/L			12/17/20 06:11	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/17/20 06:11	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/17/20 06:11	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			12/17/20 06:11	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/17/20 06:11	1
Chloroform	<5.0		5.0	0.37	ug/L			12/17/20 06:11	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/17/20 06:11	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/17/20 06:11	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/17/20 06:11	1
Trichloroethene	<5.0		5.0	0.16	ug/L			12/17/20 06:11	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/17/20 06:11	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/17/20 06:11	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/17/20 06:11	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/17/20 06:11	1
Toluene	<5.0		5.0	0.15	ug/L			12/17/20 06:11	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/17/20 06:11	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/17/20 06:11	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			12/17/20 06:11	1
2-Hexanone	<20		20	1.6	ug/L			12/17/20 06:11	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/17/20 06:11	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/17/20 06:11	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/17/20 06:11	1
Styrene	<5.0		5.0	0.39	ug/L			12/17/20 06:11	1
Bromoform	<5.0		5.0	0.48	ug/L			12/17/20 06:11	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/17/20 06:11	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/17/20 06:11	1
Surrogate	%Recovery G	Qualifier Li	mits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	75	5 - 126			-		12/17/20 06:11	1
Toluene-d8 (Surr)	108	75	5 - 120					12/17/20 06:11	1
4-Bromofluorobenzene (Surr)	124	72	2 - 124					12/17/20 06:11	1

12/17/20 06:11

75 - 120

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-10

Matrix: Water

Job ID: 500-192266-1

Date Collected: 12/09/20 13:00 Date Received: 12/10/20 10:20

4-Bromofluorobenzene (Surr)

Dibromofluoromethane

Client Sample ID: IPC GW FB

Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/17/20 06:36	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/17/20 06:36	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/17/20 06:36	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/17/20 06:36	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/17/20 06:36	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/17/20 06:36	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/17/20 06:36	1
Acetone	<20		20	1.7	ug/L			12/17/20 06:36	1
Methylene Chloride	<10		10	1.6	ug/L			12/17/20 06:36	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/17/20 06:36	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/17/20 06:36	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			12/17/20 06:36	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/17/20 06:36	1
Chloroform	<5.0		5.0	0.37	ug/L			12/17/20 06:36	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/17/20 06:36	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/17/20 06:36	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/17/20 06:36	1
Trichloroethene	<5.0		5.0	0.16	ug/L			12/17/20 06:36	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/17/20 06:36	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/17/20 06:36	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/17/20 06:36	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/17/20 06:36	1
Toluene	<5.0		5.0	0.15	ug/L			12/17/20 06:36	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/17/20 06:36	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/17/20 06:36	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			12/17/20 06:36	1
2-Hexanone	<20		20	1.6	ug/L			12/17/20 06:36	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/17/20 06:36	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/17/20 06:36	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/17/20 06:36	1
Styrene	<5.0		5.0	0.39	ug/L			12/17/20 06:36	1
Bromoform	<5.0		5.0	0.48	ug/L			12/17/20 06:36	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			12/17/20 06:36	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/17/20 06:36	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126			-		12/17/20 06:36	1
Toluene-d8 (Surr)	107		75 - 120					12/17/20 06:36	1
								40/47/00 00 0	

12/22/2020

12/17/20 06:36

12/17/20 06:36

72 - 124

75 - 120

122

90

3

5

8

10

12

14

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-192266-11

Job ID: 500-192266-1

Client Sample ID: Trip Blank Date Collected: 12/09/20 00:00

Date Received: 12/10/20 10:20

Matrix: Water

Analyte	Result Qualifi	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0	5.0	0.15	ug/L			12/17/20 01:36	1
Chloromethane	<5.0	5.0	0.32	ug/L			12/17/20 01:36	1
Vinyl chloride	<2.0	2.0	0.20	ug/L			12/17/20 01:36	1
Bromomethane	<5.0	5.0	0.80	ug/L			12/17/20 01:36	1
Chloroethane	<5.0	5.0	0.51	ug/L			12/17/20 01:36	1
1,1-Dichloroethene	<5.0	5.0	0.39	ug/L			12/17/20 01:36	1
Carbon disulfide	<5.0	5.0	0.45	ug/L			12/17/20 01:36	1
Acetone	<20	20	1.7	ug/L			12/17/20 01:36	1
Methylene Chloride	<10	10	1.6	ug/L			12/17/20 01:36	1
trans-1,2-Dichloroethene	<5.0	5.0	0.35	ug/L			12/17/20 01:36	1
1,1-Dichloroethane	<5.0	5.0	0.41	ug/L			12/17/20 01:36	1
cis-1,2-Dichloroethene	<5.0	5.0	0.41	ug/L			12/17/20 01:36	1
Methyl Ethyl Ketone	<20	20	2.1	ug/L			12/17/20 01:36	1
Chloroform	<5.0	5.0	0.37	ug/L			12/17/20 01:36	1
1,1,1-Trichloroethane	<5.0	5.0	0.38	ug/L			12/17/20 01:36	1
Carbon tetrachloride	<5.0	5.0	0.38	ug/L			12/17/20 01:36	1
1,2-Dichloroethane	<5.0	5.0	0.39	ug/L			12/17/20 01:36	1
Trichloroethene	<5.0	5.0	0.16	ug/L			12/17/20 01:36	1
1,2-Dichloropropane	<5.0	5.0	0.43	ug/L			12/17/20 01:36	1
Bromodichloromethane	<5.0	5.0	0.37	ug/L			12/17/20 01:36	1
cis-1,3-Dichloropropene	<5.0	5.0	0.42	ug/L			12/17/20 01:36	1
methyl isobutyl ketone	<20	20	2.2	ug/L			12/17/20 01:36	1
Toluene	<5.0	5.0	0.15	ug/L			12/17/20 01:36	1
trans-1,3-Dichloropropene	<5.0	5.0	0.36	ug/L			12/17/20 01:36	1
1,1,2-Trichloroethane	<5.0	5.0	0.35	ug/L			12/17/20 01:36	1
Tetrachloroethene	<5.0	5.0	0.37	ug/L			12/17/20 01:36	1
2-Hexanone	<20	20	1.6	ug/L			12/17/20 01:36	1
Dibromochloromethane	<5.0	5.0	0.49	ug/L			12/17/20 01:36	1
Chlorobenzene	<5.0	5.0	0.39	ug/L			12/17/20 01:36	1
Ethylbenzene	<5.0	5.0	0.18	ug/L			12/17/20 01:36	1
Styrene	<5.0	5.0	0.39	ug/L			12/17/20 01:36	1
Bromoform	<5.0	5.0	0.48	ug/L			12/17/20 01:36	1
1,1,2,2-Tetrachloroethane	<5.0	5.0	0.40	ug/L			12/17/20 01:36	1
Xylenes, Total	<5.0	5.0	0.22	ug/L			12/17/20 01:36	1
Surrogate	%Recovery Qualif				_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	75 - 126					12/17/20 01:36	1
Toluene-d8 (Surr)	108	75 - 120					12/17/20 01:36	1
4-Bromofluorobenzene (Surr)	123	72 - 124					12/17/20 01:36	1
Dibromofluoromethane	90	75 - 120					12/17/20 01:36	1

12/22/2020

Definitions/Glossary

Client: Environmental Information Logistics (EIL

Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

*+ LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Appreviation	These commonly used appreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

F

6

7

8

4.6

11

46

14

QC Association Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

GC/MS VOA

Analysis Batch: 577114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192266-1	IPC GW MW 1	Total/NA	Water	8260B	
500-192266-4	IPC GW MW 4	Total/NA	Water	8260B	
500-192266-5	IPC GW MW 5	Total/NA	Water	8260B	
500-192266-7	IPC GW MW 7	Total/NA	Water	8260B	
500-192266-8	IPC GW MW 8	Total/NA	Water	8260B	
500-192266-9	IPC GW MW 9	Total/NA	Water	8260B	
500-192266-10	IPC GW FB	Total/NA	Water	8260B	
500-192266-11	Trip Blank	Total/NA	Water	8260B	
MB 500-577114/6	Method Blank	Total/NA	Water	8260B	
LCS 500-577114/28	Lab Control Sample	Total/NA	Water	8260B	
500-192266-8 MS	IPC GW MW 8	Total/NA	Water	8260B	
500-192266-8 MSD	IPC GW MW 8	Total/NA	Water	8260B	

Analysis Batch: 577522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192266-6	IPC GW MW 6	Total/NA	Water	8260B	
MB 500-577522/6	Method Blank	Total/NA	Water	8260B	
LCS 500-577522/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 577715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192266-2	IPC GW MW 2	Total/NA	Water	8260B	
500-192266-3	IPC GW MW 3	Total/NA	Water	8260B	
MB 500-577715/6	Method Blank	Total/NA	Water	8260B	
LCS 500-577715/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	gate Recovery (Acceptance L	imits)
		DCA	TOL	BFB	DBFM	
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)	
500-192266-1	IPC GW MW 1	106	105	120	91	
500-192266-2	IPC GW MW 2	110	94	95	90	
500-192266-3	IPC GW MW 3	113	93	96	92	
500-192266-4	IPC GW MW 4	106	107	124	91	
500-192266-5	IPC GW MW 5	109	105	124	91	
500-192266-6	IPC GW MW 6	115	95	89	117	
500-192266-7	IPC GW MW 7	108	106	122	93	
500-192266-8	IPC GW MW 8	107	107	123	92	
500-192266-8 MS	IPC GW MW 8	107	105	116	95	
500-192266-8 MSD	IPC GW MW 8	107	105	118	93	
500-192266-9	IPC GW MW 9	106	108	124	91	
500-192266-10	IPC GW FB	106	107	122	90	
500-192266-11	Trip Blank	105	108	123	90	
LCS 500-577114/28	Lab Control Sample	102	103	111	91	
LCS 500-577522/4	Lab Control Sample	104	104	89	113	
LCS 500-577715/4	Lab Control Sample	103	96	92	91	
MB 500-577114/6	Method Blank	103	107	120	89	
MB 500-577522/6	Method Blank	113	97	91	118	
MB 500-577715/6	Method Blank	109	93	92	90	

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-577114/6

Matrix: Water

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 577114 MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed Benzene <5.0 5.0 0.15 ug/L 12/17/20 00:21 Chloromethane <5.0 5.0 0.32 ug/L 12/17/20 00:21 1 Vinyl chloride < 2.0 2.0 0.20 ug/L 12/17/20 00:21 < 5.0 5.0 0.80 ug/L 12/17/20 00:21

Bromomethane Chloroethane < 5.0 5.0 0.51 ug/L 12/17/20 00:21 1,1-Dichloroethene <5.0 5.0 0.39 ug/L 12/17/20 00:21 Carbon disulfide <5.0 5.0 0.45 ug/L 12/17/20 00:21 Acetone <20 20 1.7 ug/L 12/17/20 00:21 Methylene Chloride <10 10 1.6 ug/L 12/17/20 00:21

trans-1,2-Dichloroethene < 5.0 5.0 0.35 ug/L 12/17/20 00:21 1.1-Dichloroethane < 5.0 5.0 0.41 ug/L 12/17/20 00:21 cis-1,2-Dichloroethene <5.0 5.0 0.41 ug/L 12/17/20 00:21 Methyl Ethyl Ketone <20 20 12/17/20 00:21 2.1 ug/L Chloroform <5.0 5.0 0.37 ug/L 12/17/20 00:21

1,1,1-Trichloroethane <5.0 5.0 0.38 ug/L 12/17/20 00:21 Carbon tetrachloride <5.0 5.0 0.38 ug/L 12/17/20 00:21 1,2-Dichloroethane < 5.0 5.0 0.39 ug/L 12/17/20 00:21 Trichloroethene < 5.0 5.0 0.16 ug/L 12/17/20 00:21 1,2-Dichloropropane <5.0 5.0 0.43 ug/L 12/17/20 00:21

Bromodichloromethane <5.0 5.0 0.37 ug/L 12/17/20 00:21 cis-1,3-Dichloropropene <5.0 5.0 0.42 ug/L 12/17/20 00:21 <20 20 methyl isobutyl ketone 2.2 ug/L 12/17/20 00:21 <5.0 5.0 0.15 ug/L 12/17/20 00:21 Toluene <5.0 5.0 trans-1,3-Dichloropropene 0.36 ug/L 12/17/20 00:21 1,1,2-Trichloroethane < 5.0 5.0 0.35 ug/L 12/17/20 00:21

0.37 ug/L Tetrachloroethene < 5.0 5.0 12/17/20 00:21 2-Hexanone <20 20 1.6 ug/L 12/17/20 00:21 Dibromochloromethane <5.0 5.0 0.49 ug/L 12/17/20 00:21 Chlorobenzene <5.0 5.0 0.39 ug/L 12/17/20 00:21 Ethylbenzene <5.0 5.0 0.18 ug/L 12/17/20 00:21 Styrene < 5.0 5.0 0.39 ug/L 12/17/20 00:21 < 5.0 5.0 0.48 ug/L 12/17/20 00:21 Bromoform

1,1,2,2-Tetrachloroethane < 5.0 5.0 0.40 ug/L 12/17/20 00:21 Xylenes, Total <5.0 5.0 0.22 ug/L 12/17/20 00:21

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		12/17/20 00:21	1
Toluene-d8 (Surr)	107		75 - 120		12/17/20 00:21	1
4-Bromofluorobenzene (Surr)	120		72 - 124		12/17/20 00:21	1
Dibromofluoromethane	89		75 - 120		12/17/20 00:21	1

Lab Sample ID: LCS 500-577114/28

Matrix: Water

Analysis Batch: 577114

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	 50.0	43.4		ug/L		87	70 - 120	
Chloromethane	50.0	35.9		ug/L		72	56 - 152	

Eurofins TestAmerica, Chicago

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-577114/28

Matrix: Water

Analysis Batch: 577114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Bromomethane 50.0 35.0 ug/L 70 40 Chloroethane 50.0 40.0 ug/L 80 48 1,1-Dichloroethene 50.0 37.0 ug/L 74 67 Carbon disulfide 50.0 35.2 ug/L 70 66 Acetone 50.0 43.6 ug/L 87 40 Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 86 70 Chloroform 50.0 41.5 ug/L 87 70 Carbon tetrachloride 50.0 43.4 ug/L 87 70 1,2-Dichloroethane 50.0 44.8 ug/L 89	ec.
Bromomethane 50.0 35.0 ug/L 70 40 Chloroethane 50.0 40.0 ug/L 80 48 1,1-Dichloroethene 50.0 37.0 ug/L 74 67 Carbon disulfide 50.0 35.2 ug/L 70 66 Acetone 50.0 43.6 ug/L 87 40 Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 86 70 Chloroform 50.0 41.5 ug/L 87 70 Ly-Dichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 44.8 ug/L 82	its
Chloroethane 50.0 40.0 ug/L 80 48 1,1-Dichloroethene 50.0 37.0 ug/L 74 67 Carbon disulfide 50.0 35.2 ug/L 70 66 Acetone 50.0 43.6 ug/L 87 40 Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethane 50.0 39.0 ug/L 86 70 cis-1,2-Dichloroethane 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 83 70 Chloroform 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 44.8 ug/L	126
1,1-Dichloroethene 50.0 37.0 ug/L 74 67 Carbon disulfide 50.0 35.2 ug/L 70 66 Acetone 50.0 43.6 ug/L 87 40 Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 86 70 1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 43.0 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 44.9 ug/L 83 70 1,1,1-Trichloroethane 50.0 41.5 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 82 70 1,2-Dichloropropane 50.0 40.8 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L </td <td>152</td>	152
Carbon disulfide 50.0 35.2 ug/L 70 66 Acetone 50.0 43.6 ug/L 87 40 Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethene 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 43.0 ug/L 79 70 Methyl Ethyl Ketone 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 89 67 Bromodichloromethane 50.0 40.8 ug/L	136
Acetone 50.0 43.6 ug/L 87 40 Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 43.0 ug/L 79 70 Methyl Ethyl Ketone 50.0 39.4 ug/L 90 46 Chloroform 50.0 44.9 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 44.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 42.5 ug/L 85 64 cis-1,3-Dichloropropene 50.0 42.8 ug	122
Methylene Chloride 50.0 37.4 ug/L 75 69 trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 44.8 ug/L 89 67 Tochloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.5 ug/L 86 55 Toluene 50.0 44.2 ug/L <td>120</td>	120
trans-1,2-Dichloroethene 50.0 39.0 ug/L 78 70 1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L	143
1,1-Dichloroethane 50.0 43.0 ug/L 86 70 cis-1,2-Dichloroethene 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 <t< td=""><td>125</td></t<>	125
cis-1,2-Dichloroethene 50.0 39.4 ug/L 79 70 Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8	125
Methyl Ethyl Ketone 50.0 44.9 ug/L 90 46 Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L </td <td>125</td>	125
Chloroform 50.0 41.5 ug/L 83 70 1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	125
1,1,1-Trichloroethane 50.0 43.4 ug/L 87 70 Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	144
Carbon tetrachloride 50.0 37.9 ug/L 76 59 1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	120
1,2-Dichloroethane 50.0 44.8 ug/L 90 68 Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	125
Trichloroethene 50.0 40.8 ug/L 82 70 1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	133
1,2-Dichloropropane 50.0 44.7 ug/L 89 67 Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	127
Bromodichloromethane 50.0 40.7 ug/L 81 69 cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	125
cis-1,3-Dichloropropene 50.0 42.5 ug/L 85 64 methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	130
methyl isobutyl ketone 50.0 42.8 ug/L 86 55 Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	120
Toluene 50.0 44.2 ug/L 88 70 trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	127
trans-1,3-Dichloropropene 50.0 40.0 ug/L 80 62 1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	139
1,1,2-Trichloroethane 50.0 40.8 ug/L 82 71 Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	125
Tetrachloroethene 50.0 45.2 ug/L 90 70 2-Hexanone 50.0 41.7 ug/L 83 54	128
2-Hexanone 50.0 41.7 ug/L 83 54	130
<u>`</u>	128
Dibromochloromothono F0.0 35.0 ug/l 70.69	146
	125
Chlorobenzene 50.0 43.8 ug/L 88 70	120
Ethylbenzene 50.0 48.3 ug/L 97 70	123
Styrene 50.0 44.1 ug/L 88 70	120
Bromoform 50.0 30.7 ug/L 61 56	132
1,1,2,2-Tetrachloroethane 50.0 41.0 ug/L 82 62	140
Xylenes, Total 100 88.3 ug/L 88 70	125

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
Toluene-d8 (Surr)	103		75 - 120
4-Bromofluorobenzene (Surr)	111		72 - 124
Dibromofluoromethane	91		75 - 120

Lab Sample ID: 500-192266-8 MS

Matrix: Water

Analysis Batch: 577114

Client Sample ID: IPC GW MW 8
Prep Type: Total/NA

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<5.0		50.0	51.2		ug/L		102	70 - 120	
Chloromethane	<5.0		50.0	42.2		ug/L		84	56 - 152	
Vinyl chloride	<2.0		50.0	42.8		ug/L		86	64 - 126	
Bromomethane	<5.0		50.0	46.2		ug/L		92	40 - 152	

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-192266-8 MS

Matrix: Water

Analysis Batch: 577114

Client Sample ID: IPC GW MW 8

Prep Type: Total/NA

Analysis Baton. 017114	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloroethane	<5.0		50.0	45.4		ug/L		91	48 - 136
1,1-Dichloroethene	<5.0		50.0	43.8		ug/L		88	67 - 122
Carbon disulfide	<5.0		50.0	42.8		ug/L		86	66 - 120
Acetone	<20		50.0	49.3		ug/L		99	40 - 143
Methylene Chloride	<10		50.0	46.0		ug/L		92	69 - 125
trans-1,2-Dichloroethene	<5.0		50.0	45.9		ug/L		92	70 - 125
1,1-Dichloroethane	19		50.0	68.0		ug/L		98	70 - 125
cis-1,2-Dichloroethene	8.0		50.0	55.2		ug/L		94	70 - 125
Methyl Ethyl Ketone	<20		50.0	54.9		ug/L		110	46 - 144
Chloroform	<5.0		50.0	50.8		ug/L		102	70 - 120
1,1,1-Trichloroethane	<5.0		50.0	50.2		ug/L		100	70 - 125
Carbon tetrachloride	<5.0		50.0	44.2		ug/L		88	59 - 133
1,2-Dichloroethane	<5.0		50.0	55.8		ug/L		112	68 - 127
Trichloroethene	12		50.0	58.6		ug/L		94	70 - 125
1,2-Dichloropropane	<5.0		50.0	54.5		ug/L		109	67 - 130
Bromodichloromethane	<5.0		50.0	51.2		ug/L		102	69 - 120
cis-1,3-Dichloropropene	<5.0		50.0	52.8		ug/L		106	64 - 127
methyl isobutyl ketone	<20		50.0	55.3		ug/L		111	55 - 139
Toluene	<5.0		50.0	53.1		ug/L		106	70 - 125
trans-1,3-Dichloropropene	<5.0		50.0	50.4		ug/L		101	62 - 128
1,1,2-Trichloroethane	<5.0		50.0	52.3		ug/L		105	71 - 130
Tetrachloroethene	5.4		50.0	55.1		ug/L		99	70 - 128
2-Hexanone	<20		50.0	54.2		ug/L		108	54 - 146
Dibromochloromethane	<5.0		50.0	47.3		ug/L		95	68 - 125
Chlorobenzene	<5.0		50.0	52.0		ug/L		104	70 - 120
Ethylbenzene	<5.0		50.0	55.1		ug/L		110	70 - 123
Styrene	<5.0		50.0	52.1		ug/L		104	70 - 120
Bromoform	<5.0		50.0	42.3		ug/L		85	56 - 132
1,1,2,2-Tetrachloroethane	<5.0		50.0	59.2		ug/L		118	62 - 140
Xylenes, Total	<5.0		100	103		ug/L		103	70 - 125

Sample Sample

<5.0

<5.0

<2.0

<5.0

< 5.0

<5.0

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		75 - 126
Toluene-d8 (Surr)	105		75 - 120
4-Bromofluorobenzene (Surr)	116		72 - 124
Dibromofluoromethane	95		75 - 120

Lab Sample ID: 500-192266-8 MSD

Matrix: Water

Analyte

Benzene

Chloromethane

Bromomethane

1,1-Dichloroethene

Chloroethane

Vinyl chloride

Analysis Batch: 577114

Client Sample ID: IPC GW MW 8
Prep Type: Total/NA

	%Rec.		RPD	
%Rec	Limits	RPD	Limit	
101	70 - 120	2	20	
85	56 - 152	1	20	
88	64 - 126	2	20	
94	40 - 152	2	20	
93	48 - 136	2	20	
	101 85 88 94	%Rec Limits 101 70 - 120 85 56 - 152 88 64 - 126 94 40 - 152	%Rec Limits RPD 101 70 - 120 2 85 56 - 152 1 88 64 - 126 2 94 40 - 152 2	%Rec Limits RPD Limit 101 70 - 120 2 20 85 56 - 152 1 20 88 64 - 126 2 20 94 40 - 152 2 20

67 - 122

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Spike

Added

50.0

50.0

50.0

50.0

50.0

50.0

MSD MSD

50.3

42.5

43.9

47.1

46.3

42.3

Result Qualifier

Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-192266-8 MSD

Matrix: Water

Analysis Batch: 577114

Client Sample ID: IPC GW MW 8

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Carbon disulfide	<5.0		50.0	42.1		ug/L		84	66 - 120	2	20
Acetone	<20		50.0	43.7		ug/L		87	40 - 143	12	20
Methylene Chloride	<10		50.0	45.2		ug/L		90	69 - 125	2	20
trans-1,2-Dichloroethene	<5.0		50.0	44.8		ug/L		90	70 - 125	2	20
1,1-Dichloroethane	19		50.0	66.6		ug/L		95	70 - 125	2	20
cis-1,2-Dichloroethene	8.0		50.0	53.4		ug/L		91	70 - 125	3	20
Methyl Ethyl Ketone	<20		50.0	52.5		ug/L		105	46 - 144	4	20
Chloroform	<5.0		50.0	49.6		ug/L		99	70 - 120	2	20
1,1,1-Trichloroethane	<5.0		50.0	49.8		ug/L		99	70 - 125	1	20
Carbon tetrachloride	<5.0		50.0	43.9		ug/L		88	59 - 133	1	20
1,2-Dichloroethane	<5.0		50.0	55.0		ug/L		110	68 - 127	1	20
Trichloroethene	12		50.0	56.0		ug/L		89	70 - 125	5	20
1,2-Dichloropropane	<5.0		50.0	53.7		ug/L		107	67 - 130	1	20
Bromodichloromethane	<5.0		50.0	50.0		ug/L		100	69 - 120	2	20
cis-1,3-Dichloropropene	<5.0		50.0	51.9		ug/L		104	64 - 127	2	20
methyl isobutyl ketone	<20		50.0	50.9		ug/L		102	55 - 139	8	20
Toluene	<5.0		50.0	52.6		ug/L		105	70 - 125	1	20
trans-1,3-Dichloropropene	<5.0		50.0	49.5		ug/L		99	62 - 128	2	20
1,1,2-Trichloroethane	<5.0		50.0	51.0		ug/L		102	71 - 130	3	20
Tetrachloroethene	5.4		50.0	53.3		ug/L		96	70 - 128	3	20
2-Hexanone	<20		50.0	50.8		ug/L		102	54 - 146	6	20
Dibromochloromethane	<5.0		50.0	46.0		ug/L		92	68 - 125	3	20
Chlorobenzene	<5.0		50.0	51.1		ug/L		102	70 - 120	2	20
Ethylbenzene	<5.0		50.0	54.4		ug/L		109	70 - 123	1	20
Styrene	<5.0		50.0	50.1		ug/L		100	70 - 120	4	20
Bromoform	<5.0		50.0	41.2		ug/L		82	56 - 132	3	20
1,1,2,2-Tetrachloroethane	<5.0		50.0	57.6		ug/L		115	62 - 140	3	20
Xylenes, Total	<5.0		100	100		ug/L		100	70 - 125	3	20

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		75 - 126
Toluene-d8 (Surr)	105		75 - 120
4-Bromofluorobenzene (Surr)	118		72 - 124
Dibromofluoromethane	93		75 - 120

Lab Sample ID: MB 500-577522/6

Matrix: Water

Analysis Batch: 577522

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/18/20 22:10	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/18/20 22:10	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/18/20 22:10	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/18/20 22:10	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/18/20 22:10	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/18/20 22:10	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/18/20 22:10	1
Acetone	<20		20	1.7	ug/L			12/18/20 22:10	1

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12/22/2020

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

<5.0

<5.0

<5.0

<5.0

<20

<5.0

< 5.0

113

97

91

118

Lab Sample ID: MB 500-577522/6

Matrix: Water

Toluene

trans-1,3-Dichloropropene

1,1,2-Trichloroethane

Dibromochloromethane

Tetrachloroethene

2-Hexanone

Chlorobenzene

Analysis Batch: 577522

Client Sample ID: Method Blank

Prep Type: Total/NA

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

12/18/20 22:10

Analysis Balch: 5//522									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<10		10	1.6	ug/L			12/18/20 22:10	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/18/20 22:10	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/18/20 22:10	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			12/18/20 22:10	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/18/20 22:10	1
Chloroform	<5.0		5.0	0.37	ug/L			12/18/20 22:10	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/18/20 22:10	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/18/20 22:10	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/18/20 22:10	1
Trichloroethene	<5.0		5.0	0.16	ug/L			12/18/20 22:10	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/18/20 22:10	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/18/20 22:10	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/18/20 22:10	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/18/20 22:10	1

5.0

5.0

5.0

5.0

20

5.0

5.0

0.15 ug/L

0.36 ug/L

0.35 ug/L

0.37 ug/L

1.6 ug/L

0.49 ug/L

0.39 ug/L

Ethylbenzene < 5.0 5.0 0.18 ug/L 12/18/20 22:10 0.39 ug/L Styrene <5.0 5.0 12/18/20 22:10 Bromoform <5.0 5.0 0.48 ug/L 12/18/20 22:10 <5.0 5.0 0.40 ug/L 1,1,2,2-Tetrachloroethane 12/18/20 22:10 Xylenes, Total <5.0 5.0 0.22 ug/L 12/18/20 22:10 MB MB Qualifier Surrogate %Recovery Limits Prepared Dil Fac Analyzed

75 - 126

75 - 120

72 - 124

75 - 120

Lab Sample ID: LCS 500-577522/4

Matrix: Water

Toluene-d8 (Surr)

Analysis Batch: 577522

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	50.0	50.2		ug/L		100	70 - 120
Chloromethane	50.0	70.2		ug/L		140	56 - 152
Vinyl chloride	50.0	55.3		ug/L		111	64 - 126
Bromomethane	50.0	71.8		ug/L		144	40 - 152
Chloroethane	50.0	69.5	*+	ug/L		139	48 - 136
1,1-Dichloroethene	50.0	53.0		ug/L		106	67 - 122
Carbon disulfide	50.0	51.0		ug/L		102	66 - 120
Acetone	50.0	48.4		ug/L		97	40 - 143
Methylene Chloride	50.0	54.4		ug/L		109	69 - 125
trans-1,2-Dichloroethene	50.0	54.9		ug/L		110	70 - 125

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Eurofins TestAmerica, Chicago

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-577522/4

Matrix: Water

Analysis Batch: 577522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethane	50.0	60.2		ug/L		120	70 - 125	
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	70 - 125	
Methyl Ethyl Ketone	50.0	44.9		ug/L		90	46 - 144	
Chloroform	50.0	52.2		ug/L		104	70 - 120	
1,1,1-Trichloroethane	50.0	56.5		ug/L		113	70 - 125	
Carbon tetrachloride	50.0	59.2		ug/L		118	59 - 133	
1,2-Dichloroethane	50.0	58.4		ug/L		117	68 - 127	
Trichloroethene	50.0	57.1		ug/L		114	70 - 125	
1,2-Dichloropropane	50.0	59.8		ug/L		120	67 - 130	
Bromodichloromethane	50.0	56.3		ug/L		113	69 - 120	
cis-1,3-Dichloropropene	50.0	55.0		ug/L		110	64 - 127	
methyl isobutyl ketone	50.0	51.7		ug/L		103	55 - 139	
Toluene	50.0	54.5		ug/L		109	70 - 125	
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	62 - 128	
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	71 - 130	
Tetrachloroethene	50.0	59.6		ug/L		119	70 - 128	
2-Hexanone	50.0	50.9		ug/L		102	54 - 146	
Dibromochloromethane	50.0	59.5		ug/L		119	68 - 125	
Chlorobenzene	50.0	55.2		ug/L		110	70 - 120	
Ethylbenzene	50.0	56.7		ug/L		113	70 - 123	
Styrene	50.0	57.1		ug/L		114	70 - 120	
Bromoform	50.0	66.1		ug/L		132	56 - 132	
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	62 - 140	
Xylenes, Total	100	110		ug/L		110	70 - 125	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 126
Toluene-d8 (Surr)	104		75 - 120
4-Bromofluorobenzene (Surr)	89		72 - 124
Dibromofluoromethane	113		75 - 120

Lab Sample ID: MB 500-577715/6

Matrix: Water

Analysis Batch: 577715

Client Sample ID: Method Blank

Prep Type: Total/NA

-	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			12/21/20 11:19	1
Chloromethane	<5.0		5.0	0.32	ug/L			12/21/20 11:19	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			12/21/20 11:19	1
Bromomethane	<5.0		5.0	0.80	ug/L			12/21/20 11:19	1
Chloroethane	<5.0		5.0	0.51	ug/L			12/21/20 11:19	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			12/21/20 11:19	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			12/21/20 11:19	1
Acetone	<20		20	1.7	ug/L			12/21/20 11:19	1
Methylene Chloride	<10		10	1.6	ug/L			12/21/20 11:19	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			12/21/20 11:19	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			12/21/20 11:19	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			12/21/20 11:19	1

Eurofins TestAmerica, Chicago

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-577715/6

Matrix: Water

Analysis Batch: 577715

Client Sample ID: Method Blank

Prep Type: Total/NA

•	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	<20		20	2.1	ug/L			12/21/20 11:19	1
Chloroform	<5.0		5.0	0.37	ug/L			12/21/20 11:19	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			12/21/20 11:19	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			12/21/20 11:19	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			12/21/20 11:19	1
Trichloroethene	<5.0		5.0	0.16	ug/L			12/21/20 11:19	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			12/21/20 11:19	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			12/21/20 11:19	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			12/21/20 11:19	1
methyl isobutyl ketone	<20		20	2.2	ug/L			12/21/20 11:19	1
Toluene	<5.0		5.0	0.15	ug/L			12/21/20 11:19	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			12/21/20 11:19	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			12/21/20 11:19	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			12/21/20 11:19	1
2-Hexanone	<20		20	1.6	ug/L			12/21/20 11:19	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			12/21/20 11:19	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			12/21/20 11:19	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			12/21/20 11:19	1
Styrene	<5.0		5.0	0.39	ug/L			12/21/20 11:19	1
Bromoform	<5.0		5.0	0.48	ug/L			12/21/20 11:19	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			12/21/20 11:19	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			12/21/20 11:19	1

	MB	MB			
Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126	12/21/20 11:19	1
Toluene-d8 (Surr)	93		75 - 120	12/21/20 11:19	1
4-Bromofluorobenzene (Surr)	92		72 - 124	12/21/20 11:19	1
Dibromofluoromethane	90		75 - 120	12/21/20 11:19	1

Lab Sample ID: LCS 500-577715/4

Matrix: Water

Analysis Batch: 577715

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Analysis Batom of the							
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	50.0	55.2		ug/L		110	70 - 120
Chloromethane	50.0	64.8		ug/L		130	56 - 152
Vinyl chloride	50.0	58.7		ug/L		117	64 - 126
Bromomethane	50.0	56.5		ug/L		113	40 - 152
Chloroethane	50.0	63.7		ug/L		127	48 - 136
1,1-Dichloroethene	50.0	51.3		ug/L		103	67 - 122
Carbon disulfide	50.0	47.5		ug/L		95	66 - 120
Acetone	50.0	40.8		ug/L		82	40 - 143
Methylene Chloride	50.0	47.2		ug/L		94	69 - 125
trans-1,2-Dichloroethene	50.0	52.5		ug/L		105	70 - 125
1,1-Dichloroethane	50.0	57.6		ug/L		115	70 - 125
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 125
Methyl Ethyl Ketone	50.0	56.7		ug/L		113	46 - 144
Chloroform	50.0	52.5		ug/L		105	70 - 120

Eurofins TestAmerica, Chicago

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QC Sample Results

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-577715/4

Matrix: Water

Analysis Batch: 577715

Prep Type: Total/NA

•	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier	Unit	D %Re	c Limits	
1,1,1-Trichloroethane	50.0	56.3		ug/L		3 70 - 125	
Carbon tetrachloride	50.0	54.2		ug/L	10	8 59 - 133	
1,2-Dichloroethane	50.0	58.6		ug/L	11	7 68 - 127	
Trichloroethene	50.0	53.0		ug/L	10	6 70 - 125	
1,2-Dichloropropane	50.0	58.1		ug/L	11	6 67 - 130	
Bromodichloromethane	50.0	48.0		ug/L	9	6 69 - 120	
cis-1,3-Dichloropropene	50.0	45.1		ug/L	9	0 64 - 127	
methyl isobutyl ketone	50.0	63.7		ug/L	12	7 55 - 139	
Toluene	50.0	54.5		ug/L	10	9 70 - 125	
trans-1,3-Dichloropropene	50.0	41.7		ug/L	8	3 62 - 128	
1,1,2-Trichloroethane	50.0	45.0		ug/L	9	0 71 - 130	
Tetrachloroethene	50.0	54.9		ug/L	11	0 70 - 128	
2-Hexanone	50.0	67.8		ug/L	13	6 54 - 146	
Dibromochloromethane	50.0	39.7		ug/L	7	9 68 - 125	
Chlorobenzene	50.0	52.6		ug/L	10	5 70 - 120	
Ethylbenzene	50.0	58.0		ug/L	11	6 70 - 123	
Styrene	50.0	52.9		ug/L	10	6 70 - 120	
Bromoform	50.0	34.0		ug/L	6	8 56 - 132	
1,1,2,2-Tetrachloroethane	50.0	40.4		ug/L	8	1 62 - 140	
Xylenes, Total	100	117		ug/L	11	7 70 - 125	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
Toluene-d8 (Surr)	96		75 - 120
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane	91		75 - 120

Client Sample ID: Lab Control Sample

Lab Sample ID: 500-192266-1

Matrix: Water

Batch Dilution Batch Ratch Prepared Method

or Analyzed **Prep Type** Type Run **Factor** Number **Analyst** Lab Total/NA Analysis 8260B 12/17/20 02:51 PMF TAL CHI 577114

Client Sample ID: IPC GW MW 2

Date Collected: 12/09/20 12:25 Date Received: 12/10/20 10:20

Lab Sample ID: 500-192266-2

Matrix: Water

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Analysis 8260B 577715 12/21/20 15:24 PMF TAL CHI

Client Sample ID: IPC GW MW 3

Date Collected: 12/09/20 11:45 Date Received: 12/10/20 10:20

Lab Sample ID: 500-192266-3

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Type Run Analyst Lab PMF TAL CHI Total/NA Analysis 8260B 577715 12/21/20 15:51

Client Sample ID: IPC GW MW 4

Date Collected: 12/09/20 11:05

Date Received: 12/10/20 10:20

Lab Sample ID: 500-192266-4

Lab Sample ID: 500-192266-5

Lab Sample ID: 500-192266-6

Matrix: Water

Matrix: Water

Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method Run Factor Number or Analyzed Analyst Type Lab Total/NA Analysis 8260B 577114 12/17/20 04:06 PMF TAL CHI

Client Sample ID: IPC GW MW 5

Date Collected: 12/09/20 10:05

Date Received: 12/10/20 10:20

Batch Batch Dilution Batch Prepared

Method Run Factor Number or Analyzed **Prep Type** Type Analyst Lab PMF TAL CHI Total/NA Analysis 8260B 577114 12/17/20 04:30

Client Sample ID: IPC GW MW 6

Date Collected: 12/09/20 10:35

Date Received: 12/10/20 10:20

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab 12/19/20 04:10 PMF TAL CHI Total/NA Analysis 8260B 577522

Lab Sample ID: 500-192266-7 Client Sample ID: IPC GW MW 7 Date Collected: 12/09/20 09:20 **Matrix: Water** Date Received: 12/10/20 10:20

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab PMF TAL CHI Total/NA Analysis 8260B 12/17/20 05:20

Lab Chronicle

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Client Sample ID: IPC GW MW 8

Date Collected: 12/09/20 08:50 Date Received: 12/10/20 10:20

Lab Sample ID: 500-192266-8

Lab

Matrix: Water

Matrix: Water

Batch Dilution Batch **Batch Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst

Total/NA Analysis 8260B 12/17/20 05:46 PMF TAL CHI 577114

Client Sample ID: IPC GW MW 9

Lab Sample ID: 500-192266-9 Date Collected: 12/09/20 09:03 **Matrix: Water**

Date Received: 12/10/20 10:20

Batch Batch Dilution **Batch** Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Analysis 8260B 577114 12/17/20 06:11 PMF TAL CHI

Client Sample ID: IPC GW FB Lab Sample ID: 500-192266-10

Date Collected: 12/09/20 13:00 Date Received: 12/10/20 10:20

Batch Batch Dilution Batch **Prepared Prep Type** Method **Factor** Number or Analyzed Type Run **Analyst** Lab PMF TAL CHI Total/NA Analysis 8260B 577114 12/17/20 06:36

Client Sample ID: Trip Blank Lab Sample ID: 500-192266-11

Date Collected: 12/09/20 00:00 **Matrix: Water**

Date Received: 12/10/20 10:20

Batch **Batch** Dilution Batch **Prepared Prep Type** Method Run Factor Number or Analyzed Type Analyst Lab Analysis 8260B 577114 12/17/20 01:36 PMF TAL CHI Total/NA

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-192266-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

	Authority	Program	Identification Number	Expiration Date
ı	Illinois	NELAP	IL00035	04-29-21

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Chain of Custody Record 493142

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Environment Testing Testamerica

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TPCGW MW3		1145																		
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IPCGW MWS		1005				Ш										_				***************************************
IPCGW MWG		1635												_			_			
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Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3;	5=NaOH:	S= Other		ļ		4	44		++			_		4			-	-		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Plead Comments Section if the lab is to dispose of the sample.	se List any f	EPA Waste			ple in th					A fee							*		l longer than 1 month)	
Non-Hazard Flammable Skin Irritant	Poison	B	Unkn	lown			∐ R	eturn to	Client			Disposal	l by La	b	overno serie	Arc	thive fo	or	Months	
Special Instructions/QC Requirements & Comments:													4.	<i>ډ</i> ۱.						
Custody Seals Intact: Yes No '	Custody S	eal No.:							oler T	emp. (°C): (Dbs'd:			Corr'd	:	· · · · · · · · · · · · · · · · · · ·		Therm ID No.:	
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Client: Environmental Information Logistics (EIL

Job Number: 500-192266-1

Login Number: 192266

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

Laboratory Job ID: 500-193056-1

Client Project/Site: Interstate Pollution Control Site

Environmental Information Logistics (EIL 534 Duane Street Glen Ellyn, Illinois 60137

Attn: Ms. Mary Pearson

Authorized for release by: 1/6/2021 10:25:13 AM

Richard Wright, Senior Project Manager (708)746-0045

Richard.Wright@Eurofinset.com

----- LINKS -----

Review your project results through Total Access

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Job ID: 500-193056-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-193056-1

Receipt

The samples were received on 12/29/2020 9:55 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Client Sample ID: IPC GW MW8						Lab Sample ID: 500-193056-1			
Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
1,1-Dichloroethane	24	1.0	0.41	ug/L	1	_	8260B	Total/NA	
Client Sample ID: IPC Dup					Lab S	am	ple ID: 5	00-193056-2	

Amalusa	Result Qualifier	RL	MDL	Unit	Dil Foo	D Method	Dran Tira
Analyte	Result Qualifier	KL.	MDL	Unit	Dil Fac	Diviethod	Prep Type
1,1-Dichloroethane	27	1.0	0.41	ug/L	1	8260B	Total/NA

Client Sample ID: Trip Blank	Lab Sample ID: 500-193056-3

No Detections.

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Method Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Lab Sample ID 500-193056-1	Client Sample ID	Matrix Water	Collected 12/28/20 09:00	Received 12/29/20 09:55	Asset I
500-193056-2	IPC Dup	Water	12/28/20 09:05	,,	
500-193056-3	Trip Blank	Water	12/28/20 00:00	12/29/20 09:55	

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Client: Environmental Information Logistics (EIL
Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Client Sample ID: IPC GW MW8

Lab Sample ID: 500-193056-1

Matrix: Water

Date Collected: 12/28/20 09:00 Date Received: 12/29/20 09:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	24		1.0	0.41	ug/L			01/06/21 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 126					01/06/21 01:05	1
Toluene-d8 (Surr)	101		75 - 120					01/06/21 01:05	1
4-Bromofluorobenzene (Surr)	117		72 - 124					01/06/21 01:05	1
Dibromofluoromethane	91		75 - 120					01/06/21 01:05	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-193056-2

Job ID: 500-193056-1

Matrix: Water

Client Sample ID: IPC Dup Date Collected: 12/28/20 09:05

Date Received: 12/29/20 09:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	27		1.0	0.41	ug/L			01/06/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126					01/06/21 01:30	1
Toluene-d8 (Surr)	98		75 - 120					01/06/21 01:30	1
4-Bromofluorobenzene (Surr)	118		72 - 124					01/06/21 01:30	1
Dibromofluoromethane	92		75 - 120					01/06/21 01:30	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Client Sample ID: Trip Blank

Lab Sample ID: 500-193056-3 Date Collected: 12/28/20 00:00

Matrix: Water

Job ID: 500-193056-1

Date Received: 12/29/20 09:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			01/05/21 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 126					01/05/21 23:51	1
Toluene-d8 (Surr)	100		75 - 120					01/05/21 23:51	1
4-Bromofluorobenzene (Surr)	114		72 - 124					01/05/21 23:51	1
Dibromofluoromethane	93		75 - 120					01/05/21 23:51	

Definitions/Glossary

Client: Environmental Information Logistics (EIL
Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Glossary

RPD

TEF

TEQ TNTC

Olossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Eurofins TestAmerica, Chicago

1/6/2021

QC Association Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

GC/MS VOA

Analysis Batch: 579756

Lab Sample ID 500-193056-1	Client Sample ID IPC GW MW8	Prep Type Total/NA	Matrix Water	Method 8260B	Prep Batch
500-193056-2	IPC Dup	Total/NA	Water	8260B	
500-193056-3	Trip Blank	Total/NA	Water	8260B	
MB 500-579756/6	Method Blank	Total/NA	Water	8260B	
LCS 500-579756/4	Lab Control Sample	Total/NA	Water	8260B	

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Surrogate Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surre	ogate Reco
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-193056-1	IPC GW MW8	101	101	117	91
500-193056-2	IPC Dup	102	98	118	92
500-193056-3	Trip Blank	101	100	114	93
LCS 500-579756/4	Lab Control Sample	100	104	111	94
MB 500-579756/6	Method Blank	103	100	122	92
Surregate Legand	метной валк	103	100	122	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

e: Total/NA

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QC Sample Results

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-579756/6 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 579756

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			01/05/21 23:02	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126					01/05/21 23:02	1

Toluene-d8 (Surr) 100 75 - 120 01/05/21 23:02 4-Bromofluorobenzene (Surr) 122 72 - 124 01/05/21 23:02 75 - 120 Dibromofluoromethane 92 01/05/21 23:02

Lab Sample ID: LCS 500-579756/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 579756

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethane	50.0	53.1		ug/L		106	70 - 125	

LCS LCS Limits Surrogate %Recovery Qualifier 1,2-Dichloroethane-d4 (Surr) 75 - 126 100 Toluene-d8 (Surr) 104 75 - 120 4-Bromofluorobenzene (Surr) 111 72 - 124 Dibromofluoromethane 94 75 - 120

Lab Chronicle

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Client Sample ID: IPC GW MW8 Lab Sample ID: 500-193056-1 Date Collected: 12/28/20 09:00

Matrix: Water

Date Received: 12/29/20 09:55

Batch Batch Dilution Batch **Prepared** Method **Factor** or Analyzed **Prep Type** Type Run Number Analyst Lab Total/NA Analysis 8260B 579756 01/06/21 01:05 PMF TAL CHI

Client Sample ID: IPC Dup Lab Sample ID: 500-193056-2

Date Collected: 12/28/20 09:05 **Matrix: Water**

Date Received: 12/29/20 09:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	579756	01/06/21 01:30	PMF	TAL CHI

Lab Sample ID: 500-193056-3 **Client Sample ID: Trip Blank**

Date Collected: 12/28/20 00:00 **Matrix: Water**

Date Received: 12/29/20 09:55

Batch **Batch** Dilution Batch Prepared Method **Prep Type** Type **Factor** Number or Analyzed Run Analyst Lab Total/NA Analysis 8260B 579756 01/05/21 23:51 PMF TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-193056-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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Environment Testing TestAmerica

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IPCGW MW8	12200	900	G	Gu		NI					Б								Ø.	
IPCGW MW8 IPC Dup Trip Blank	122800	905	6	Gw	3	1	14													
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BILL THIRD PARTY

TESTAMERICA CHICAGO **2417 BOND ST**

UNIVERSITY PARK IL 60484 (708) 534 – 5200 REF:





TRK# 8146 6481 3409

TUE - 29 DEC 4:30P STANDARD OVERNIGHT

79 JOTA

60484 IL-US ORD





500-193056 Wayb

Client: Environmental Information Logistics (EIL

Job Number: 500-193056-1

Login Number: 193056 List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

Laboratory Job ID: 500-200915-1

Client Project/Site: Interstate Pollution Control Site

For:

Environmental Information Logistics (EIL 534 Duane Street Glen Ellyn, Illinois 60137

Attn: Ms. Mary Pearson

Lill khym

Authorized for release by: 6/29/2021 11:26:24 AM

Richard Wright, Senior Project Manager (708)746-0045

Richard.Wright@Eurofinset.com

·····LINKS ······

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Job ID: 500-200915-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-200915-1

Receipt

The samples were received on 6/16/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7° C. A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC as lab sample 11 and logged.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

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- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Trichloroethene	44		5.0	0.16	ug/L		8260B	Total/NA
Tetrachloroethene	45		5.0		ug/L	1	8260B	Total/NA
Client Sample ID: IPC (SW MW1					Lab Sa	mple ID: 5	00-200915-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Vinyl chloride	8.1		2.0	0.20	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	41		5.0	0.41	ug/L	1	8260B	Total/NA
Trichloroethene	8.3		5.0	0.16	ug/L	1	8260B	Total/NA
Tetrachloroethene	6.1		5.0	0.37	ug/L	1	8260B	Total/NA
Client Sample ID: IPC (SW MW3					Lab Sa	mple ID: 5	00-200915-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Trichloroethene	43		5.0	0.16	ug/L		8260B	Total/NA
Tetrachloroethene	46		5.0	0.37	ug/L	1	8260B	Total/NA
Client Sample ID: IPC (SW MW4					Lab Sa	mple ID: 5	00-200915-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Vinyl chloride	6.6		2.0	0.20	ug/L		8260B	Total/NA
1,1-Dichloroethane	5.1		5.0	0.41	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	5.3		5.0	0.41	ug/L	1	8260B	Total/NA
Client Sample ID: IPC (SW MW5					Lab Sa	mple ID: 5	00-200915-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Trichloroethene	32		5.0	0.16	ug/L		8260B	Total/NA
Tetrachloroethene	60		5.0	0.37	ug/L	1	8260B	Total/NA
Client Sample ID: IPC (SW MW6					Lab Sa	mple ID: 5	00-200915-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Vinyl chloride	7.5	F1	2.0	0.20	ug/L		8260B	Total/NA
cis-1,2-Dichloroethene	11		5.0	0.41	ug/L	1	8260B	Total/NA
Trichloroethene	19		5.0	0.16	ug/L	1	8260B	Total/NA
Tetrachloroethene	38		5.0	0.37	ug/L	1	8260B	Total/NA
Client Sample ID: IPC (GW MW7					Lab Sa	mple ID: 5	00-200915-
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Vinyl chloride	8.6		2.0	0.20	ug/L		8260B	Total/NA
cis-1,2-Dichloroethene	42		5.0	0.41	ug/L	1	8260B	Total/NA
Trichloroethene	9.3		5.0	0.16	ug/L	1	8260B	Total/NA
Tetrachloroethene	6.1		5.0	0.37	ug/L	1	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Result Qualifier

15

8.5

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7.7

Analyte

1,1-Dichloroethane

Trichloroethene

Tetrachloroethene

cis-1,2-Dichloroethene

RL

5.0

5.0

5.0

5.0

MDL Unit

0.41 ug/L

0.41 ug/L

0.16 ug/L

0.37 ug/L

Dil Fac D

1

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Method

8260B

8260B

8260B

8260B

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Detection Summary

Project/Site: Interstate Pollution Control Site	
Client Sample ID: IPC GW MW9	Lab Sample ID: 500-200915-9
No Detections.	
Client Sample ID: IPC FB	Lab Sample ID: 500-200915-10
No Detections.	
Client Sample ID: Trip Blank	Lab Sample ID: 500-200915-11

No Detections.

Client: Environmental Information Logistics (EIL

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Job ID: 500-200915-1

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Method Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-200915-1	IPC GW MW2	Water	06/15/21 10:45	06/16/21 09:50
500-200915-2	IPC GW MW1	Water	06/15/21 11:15	06/16/21 09:50
500-200915-3	IPC GW MW3	Water	06/15/21 10:15	06/16/21 09:50
500-200915-4	IPC GW MW4	Water	06/15/21 09:30	06/16/21 09:50
500-200915-5	IPC GW MW5	Water	06/15/21 08:45	06/16/21 09:50
500-200915-6	IPC GW MW6	Water	06/15/21 08:15	06/16/21 09:50
500-200915-7	IPC GW MW7	Water	06/15/21 07:45	06/16/21 09:50
500-200915-8	IPC GW MW8	Water	06/15/21 07:15	06/16/21 09:50
500-200915-9	IPC GW MW9	Water	06/15/21 06:55	06/16/21 09:50
500-200915-10	IPC FB	Water	06/15/21 11:40	06/16/21 09:50
500-200915-11	Trip Blank	Water	06/15/21 00:00	06/16/21 09:50

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-1

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW2

Date Collected: 06/15/21 10:45 Date Received: 06/16/21 09:50

Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0	5.0	0.15	ug/L			06/28/21 15:06	1
Chloromethane	<5.0	5.0	0.32	ug/L			06/28/21 15:06	1
Vinyl chloride	<2.0	2.0	0.20	ug/L			06/28/21 15:06	1
Bromomethane	<5.0	5.0	0.80	ug/L			06/28/21 15:06	1
Chloroethane	<5.0	5.0	0.51	ug/L			06/28/21 15:06	1
1,1-Dichloroethene	<5.0	5.0	0.39	ug/L			06/28/21 15:06	1
Carbon disulfide	<5.0	5.0	0.45	ug/L			06/28/21 15:06	1
Acetone	<20	20	1.7	ug/L			06/28/21 15:06	1
Methylene Chloride	<10	10	1.6	ug/L			06/28/21 15:06	1
trans-1,2-Dichloroethene	<5.0	5.0	0.35	ug/L			06/28/21 15:06	1
1,1-Dichloroethane	<5.0	5.0	0.41	ug/L			06/28/21 15:06	1
cis-1,2-Dichloroethene	<5.0	5.0	0.41	ug/L			06/28/21 15:06	1
Methyl Ethyl Ketone	<20	20	2.1	ug/L			06/28/21 15:06	1
Chloroform	<5.0	5.0	0.37	ug/L			06/28/21 15:06	1
1,1,1-Trichloroethane	<5.0	5.0	0.38	ug/L			06/28/21 15:06	1
Carbon tetrachloride	<5.0	5.0	0.38	ug/L			06/28/21 15:06	1
1,2-Dichloroethane	<5.0	5.0	0.39	ug/L			06/28/21 15:06	1
Trichloroethene	44	5.0	0.16	ug/L			06/28/21 15:06	1
1,2-Dichloropropane	<5.0	5.0	0.43	ug/L			06/28/21 15:06	1
Bromodichloromethane	<5.0	5.0	0.37	ug/L			06/28/21 15:06	1
cis-1,3-Dichloropropene	<5.0	5.0	0.42	ug/L			06/28/21 15:06	1
methyl isobutyl ketone	<20	20	2.2	ug/L			06/28/21 15:06	1
Toluene	<5.0	5.0	0.15	ug/L			06/28/21 15:06	1
trans-1,3-Dichloropropene	<5.0	5.0	0.36	ug/L			06/28/21 15:06	1
1,1,2-Trichloroethane	<5.0	5.0	0.35	ug/L			06/28/21 15:06	1
Tetrachloroethene	45	5.0	0.37	ug/L			06/28/21 15:06	1
2-Hexanone	<20	20	1.6	ug/L			06/28/21 15:06	1
Dibromochloromethane	<5.0	5.0	0.49	ug/L			06/28/21 15:06	1
Chlorobenzene	<5.0	5.0	0.39	ug/L			06/28/21 15:06	1
Ethylbenzene	<5.0	5.0	0.18	ug/L			06/28/21 15:06	1
Styrene	<5.0	5.0	0.39	ug/L			06/28/21 15:06	1
Bromoform	<5.0	5.0	0.48	ug/L			06/28/21 15:06	1
1,1,2,2-Tetrachloroethane	<5.0	5.0	0.40	ug/L			06/28/21 15:06	1
Xylenes, Total	<5.0	5.0	0.22	ug/L			06/28/21 15:06	1
Surrogate		ualifier Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90	75 - 126					06/28/21 15:06	1
Toluene-d8 (Surr)	97	75 - 120					06/28/21 15:06	1
4-Bromofluorobenzene (Surr)	108	72 - 124					06/28/21 15:06	1
Dibromofluoromethane	96	75 - 120					06/28/21 15:06	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-2

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW1 Date Collected: 06/15/21 11:15

Date Received: 06/16/21 09:50

4-Bromofluorobenzene (Surr)

Dibromofluoromethane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 15:31	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 15:31	1
Vinyl chloride	8.1		2.0	0.20	ug/L			06/28/21 15:31	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 15:31	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 15:31	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 15:31	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 15:31	1
Acetone	<20		20	1.7	ug/L			06/28/21 15:31	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 15:31	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 15:31	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			06/28/21 15:31	1
cis-1,2-Dichloroethene	41		5.0	0.41	ug/L			06/28/21 15:31	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 15:31	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 15:31	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 15:31	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 15:31	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 15:31	1
Trichloroethene	8.3		5.0	0.16	ug/L			06/28/21 15:31	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 15:31	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 15:31	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 15:31	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 15:31	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 15:31	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36				06/28/21 15:31	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 15:31	1
Tetrachloroethene	6.1		5.0	0.37	ug/L			06/28/21 15:31	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 15:31	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 15:31	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 15:31	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 15:31	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 15:31	1
Bromoform	<5.0		5.0		ug/L			06/28/21 15:31	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			06/28/21 15:31	1
Xylenes, Total	<5.0		5.0	0.22				06/28/21 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126					06/28/21 15:31	1
Toluene-d8 (Surr)	95		75 - 120					06/28/21 15:31	1

72 - 124

75 - 120

107

99

06/28/21 15:31

06/28/21 15:31

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-3

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW3

Date Collected: 06/15/21 10:15 Date Received: 06/16/21 09:50

Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0	5.0	0.15	ug/L			06/28/21 15:56	1
Chloromethane	<5.0	5.0	0.32	ug/L			06/28/21 15:56	1
Vinyl chloride	<2.0	2.0	0.20	ug/L			06/28/21 15:56	1
Bromomethane	<5.0	5.0	0.80	ug/L			06/28/21 15:56	1
Chloroethane	<5.0	5.0	0.51	ug/L			06/28/21 15:56	1
1,1-Dichloroethene	<5.0	5.0	0.39	ug/L			06/28/21 15:56	1
Carbon disulfide	<5.0	5.0	0.45	ug/L			06/28/21 15:56	1
Acetone	<20	20	1.7	ug/L			06/28/21 15:56	1
Methylene Chloride	<10	10	1.6	ug/L			06/28/21 15:56	1
trans-1,2-Dichloroethene	<5.0	5.0	0.35	ug/L			06/28/21 15:56	1
1,1-Dichloroethane	<5.0	5.0	0.41	ug/L			06/28/21 15:56	1
cis-1,2-Dichloroethene	<5.0	5.0	0.41	ug/L			06/28/21 15:56	1
Methyl Ethyl Ketone	<20	20	2.1	ug/L			06/28/21 15:56	1
Chloroform	<5.0	5.0	0.37	ug/L			06/28/21 15:56	1
1,1,1-Trichloroethane	<5.0	5.0	0.38	ug/L			06/28/21 15:56	1
Carbon tetrachloride	<5.0	5.0	0.38	ug/L			06/28/21 15:56	1
1,2-Dichloroethane	<5.0	5.0	0.39	ug/L			06/28/21 15:56	1
Trichloroethene	43	5.0	0.16	ug/L			06/28/21 15:56	1
1,2-Dichloropropane	<5.0	5.0	0.43	ug/L			06/28/21 15:56	1
Bromodichloromethane	<5.0	5.0	0.37	ug/L			06/28/21 15:56	1
cis-1,3-Dichloropropene	<5.0	5.0	0.42	ug/L			06/28/21 15:56	1
methyl isobutyl ketone	<20	20	2.2	ug/L			06/28/21 15:56	1
Toluene	<5.0	5.0	0.15	ug/L			06/28/21 15:56	1
trans-1,3-Dichloropropene	<5.0	5.0	0.36	ug/L			06/28/21 15:56	1
1,1,2-Trichloroethane	<5.0	5.0	0.35	ug/L			06/28/21 15:56	1
Tetrachloroethene	46	5.0	0.37	ug/L			06/28/21 15:56	1
2-Hexanone	<20	20	1.6	ug/L			06/28/21 15:56	1
Dibromochloromethane	<5.0	5.0	0.49	ug/L			06/28/21 15:56	1
Chlorobenzene	<5.0	5.0	0.39	ug/L			06/28/21 15:56	1
Ethylbenzene	<5.0	5.0	0.18	ug/L			06/28/21 15:56	1
Styrene	<5.0	5.0	0.39	ug/L			06/28/21 15:56	1
Bromoform	<5.0	5.0	0.48	ug/L			06/28/21 15:56	1
1,1,2,2-Tetrachloroethane	<5.0	5.0	0.40	ug/L			06/28/21 15:56	1
Xylenes, Total	<5.0	5.0	0.22	ug/L			06/28/21 15:56	1
Surrogate		ualifier Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	75 - 126					06/28/21 15:56	1
Toluene-d8 (Surr)	94	75 - 120					06/28/21 15:56	1
4-Bromofluorobenzene (Surr)	108	72 - 124					06/28/21 15:56	1
Dibromofluoromethane	101	75 - 120					06/28/21 15:56	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-4

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW4

Date Collected: 06/15/21 09:30 Date Received: 06/16/21 09:50

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 16:22	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 16:22	1
Vinyl chloride	6.6		2.0	0.20	ug/L			06/28/21 16:22	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 16:22	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 16:22	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 16:22	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 16:22	1
Acetone	<20		20	1.7	ug/L			06/28/21 16:22	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 16:22	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 16:22	1
1,1-Dichloroethane	5.1		5.0	0.41	ug/L			06/28/21 16:22	1
cis-1,2-Dichloroethene	5.3		5.0	0.41	ug/L			06/28/21 16:22	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 16:22	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 16:22	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 16:22	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 16:22	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 16:22	1
Trichloroethene	<5.0		5.0	0.16	ug/L			06/28/21 16:22	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 16:22	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 16:22	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 16:22	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 16:22	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 16:22	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			06/28/21 16:22	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 16:22	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			06/28/21 16:22	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 16:22	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 16:22	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 16:22	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 16:22	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 16:22	1
Bromoform	<5.0		5.0	0.48	ug/L			06/28/21 16:22	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			06/28/21 16:22	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			06/28/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126			-		06/28/21 16:22	1
Toluene-d8 (Surr)	95		75 - 120					06/28/21 16:22	1
4-Bromofluorobenzene (Surr)	108		72 - 124					06/28/21 16:22	1
Dibromofluoromethane	100		75 - 120					06/28/21 16:22	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-5

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW5

Date Collected: 06/15/21 08:45 Date Received: 06/16/21 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 16:46	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 16:46	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			06/28/21 16:46	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 16:46	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 16:46	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 16:46	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 16:46	1
Acetone	<20		20	1.7	ug/L			06/28/21 16:46	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 16:46	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 16:46	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			06/28/21 16:46	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			06/28/21 16:46	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 16:46	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 16:46	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 16:46	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 16:46	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 16:46	1
Trichloroethene	32		5.0	0.16	ug/L			06/28/21 16:46	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 16:46	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 16:46	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 16:46	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 16:46	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 16:46	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			06/28/21 16:46	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 16:46	1
Tetrachloroethene	60		5.0	0.37	ug/L			06/28/21 16:46	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 16:46	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 16:46	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 16:46	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 16:46	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 16:46	1
Bromoform	<5.0		5.0	0.48	ug/L			06/28/21 16:46	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			06/28/21 16:46	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			06/28/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90	_	75 - 126					06/28/21 16:46	1
Toluene-d8 (Surr)	96		75 - 120					06/28/21 16:46	1
4-Bromofluorobenzene (Surr)	108		72 - 124					06/28/21 16:46	1
Dibromofluoromethane	98		75 - 120					06/28/21 16:46	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-6

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW6

Date Collected: 06/15/21 08:15 Date Received: 06/16/21 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 17:11	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 17:11	1
Vinyl chloride	7.5	F1	2.0	0.20	ug/L			06/28/21 17:11	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 17:11	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 17:11	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 17:11	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 17:11	1
Acetone	<20		20	1.7	ug/L			06/28/21 17:11	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 17:11	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 17:11	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			06/28/21 17:11	1
cis-1,2-Dichloroethene	11		5.0	0.41	ug/L			06/28/21 17:11	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 17:11	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 17:11	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 17:11	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 17:11	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 17:11	1
Trichloroethene	19		5.0	0.16	ug/L			06/28/21 17:11	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 17:11	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 17:11	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 17:11	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 17:11	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 17:11	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			06/28/21 17:11	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 17:11	1
Tetrachloroethene	38		5.0	0.37	ug/L			06/28/21 17:11	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 17:11	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 17:11	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 17:11	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 17:11	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 17:11	1
Bromoform	<5.0		5.0	0.48	ug/L			06/28/21 17:11	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			06/28/21 17:11	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			06/28/21 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126			•		06/28/21 17:11	1
Toluene-d8 (Surr)	96		75 - 120					06/28/21 17:11	1
4-Bromofluorobenzene (Surr)	109		72 - 124					06/28/21 17:11	1
Dibromofluoromethane	101		75 - 120					06/28/21 17:11	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-7

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW7

Date Collected: 06/15/21 07:45 Date Received: 06/16/21 09:50

Dibromofluoromethane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 17:35	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 17:35	1
Vinyl chloride	8.6		2.0	0.20	ug/L			06/28/21 17:35	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 17:35	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 17:35	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 17:35	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 17:35	1
Acetone	<20		20	1.7	ug/L			06/28/21 17:35	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 17:35	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 17:35	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			06/28/21 17:35	1
cis-1,2-Dichloroethene	42		5.0	0.41	ug/L			06/28/21 17:35	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 17:35	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 17:35	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 17:35	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 17:35	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 17:35	1
Trichloroethene	9.3		5.0	0.16	ug/L			06/28/21 17:35	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 17:35	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 17:35	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 17:35	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 17:35	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 17:35	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			06/28/21 17:35	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 17:35	1
Tetrachloroethene	6.1		5.0	0.37	ug/L			06/28/21 17:35	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 17:35	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 17:35	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 17:35	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 17:35	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 17:35	1
Bromoform	<5.0		5.0	0.48	ug/L			06/28/21 17:35	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			06/28/21 17:35	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			06/28/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126			-		06/28/21 17:35	1
Toluene-d8 (Surr)	96		75 - 120					06/28/21 17:35	1
4-Bromofluorobenzene (Surr)	110		72 - 124					06/28/21 17:35	1

75 - 120

06/28/21 17:35

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-8

Job ID: 500-200915-1

Matrix: Water

Client Sample ID: IPC GW MW8

Date Collected: 06/15/21 07:15 Date Received: 06/16/21 09:50

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0	5.0	0.15	ug/L			06/28/21 18:00	1
Chloromethane	<5.0	5.0	0.32	ug/L			06/28/21 18:00	1
Vinyl chloride	<2.0	2.0	0.20	ug/L			06/28/21 18:00	1
Bromomethane	<5.0	5.0	0.80	ug/L			06/28/21 18:00	1
Chloroethane	<5.0	5.0	0.51	ug/L			06/28/21 18:00	1
1,1-Dichloroethene	<5.0	5.0	0.39	ug/L			06/28/21 18:00	1
Carbon disulfide	<5.0	5.0	0.45	ug/L			06/28/21 18:00	1
Acetone	<20	20	1.7	ug/L			06/28/21 18:00	1
Methylene Chloride	<10	10	1.6	ug/L			06/28/21 18:00	1
trans-1,2-Dichloroethene	<5.0	5.0	0.35	ug/L			06/28/21 18:00	1
1,1-Dichloroethane	15	5.0	0.41	ug/L			06/28/21 18:00	1
cis-1,2-Dichloroethene	8.5	5.0	0.41	ug/L			06/28/21 18:00	1
Methyl Ethyl Ketone	<20	20	2.1	ug/L			06/28/21 18:00	1
Chloroform	<5.0	5.0	0.37	ug/L			06/28/21 18:00	1
1,1,1-Trichloroethane	<5.0	5.0	0.38	ug/L			06/28/21 18:00	1
Carbon tetrachloride	<5.0	5.0	0.38	ug/L			06/28/21 18:00	1
1,2-Dichloroethane	<5.0	5.0	0.39	ug/L			06/28/21 18:00	1
Trichloroethene	12	5.0	0.16	ug/L			06/28/21 18:00	1
1,2-Dichloropropane	<5.0	5.0	0.43	ug/L			06/28/21 18:00	1
Bromodichloromethane	<5.0	5.0	0.37	ug/L			06/28/21 18:00	1
cis-1,3-Dichloropropene	<5.0	5.0	0.42	ug/L			06/28/21 18:00	1
methyl isobutyl ketone	<20	20	2.2	ug/L			06/28/21 18:00	1
Toluene	<5.0	5.0	0.15	ug/L			06/28/21 18:00	1
trans-1,3-Dichloropropene	<5.0	5.0	0.36	ug/L			06/28/21 18:00	1
1,1,2-Trichloroethane	<5.0	5.0	0.35	ug/L			06/28/21 18:00	1
Tetrachloroethene	7.7	5.0	0.37	ug/L			06/28/21 18:00	1
2-Hexanone	<20	20	1.6	ug/L			06/28/21 18:00	1
Dibromochloromethane	<5.0	5.0	0.49	ug/L			06/28/21 18:00	1
Chlorobenzene	<5.0	5.0	0.39	ug/L			06/28/21 18:00	1
Ethylbenzene	<5.0	5.0	0.18	ug/L			06/28/21 18:00	1
Styrene	<5.0	5.0	0.39	ug/L			06/28/21 18:00	1
Bromoform	<5.0	5.0	0.48	ug/L			06/28/21 18:00	1
1,1,2,2-Tetrachloroethane	<5.0	5.0	0.40	ug/L			06/28/21 18:00	1
Xylenes, Total	<5.0	5.0	0.22	ug/L			06/28/21 18:00	1
Surrogate	%Recovery Q	Qualifier Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90	75 - 126					06/28/21 18:00	1
Toluene-d8 (Surr)	95	75 - 120					06/28/21 18:00	1
4-Bromofluorobenzene (Surr)	108	72 - 124					06/28/21 18:00	1
Dibromofluoromethane	98	75 - 120					06/28/21 18:00	1

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-9

ab Sample ID. 300-2009 13-9

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC GW MW9

Date Collected: 06/15/21 06:55 Date Received: 06/16/21 09:50

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 18:25	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 18:25	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			06/28/21 18:25	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 18:25	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 18:25	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 18:25	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 18:25	1
Acetone	<20		20	1.7	ug/L			06/28/21 18:25	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 18:25	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 18:25	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			06/28/21 18:25	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			06/28/21 18:25	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 18:25	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 18:25	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 18:25	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 18:25	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 18:25	1
Trichloroethene	<5.0		5.0	0.16	ug/L			06/28/21 18:25	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 18:25	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 18:25	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 18:25	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 18:25	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 18:25	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			06/28/21 18:25	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 18:25	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			06/28/21 18:25	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 18:25	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 18:25	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 18:25	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 18:25	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 18:25	1
Bromoform	<5.0		5.0	0.48	ug/L			06/28/21 18:25	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	0.40	ug/L			06/28/21 18:25	1
Xylenes, Total	<5.0		5.0	0.22	ug/L			06/28/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126			-		06/28/21 18:25	1
Toluene-d8 (Surr)	99		75 - 120					06/28/21 18:25	1
4-Bromofluorobenzene (Surr)	108		72 - 124					06/28/21 18:25	1
Dibromofluoromethane	98		75 - 120					06/28/21 18:25	1

6/29/2021

3

5

7

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-10

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: IPC FB Date Collected: 06/15/21 11:40 Date Received: 06/16/21 09:50

4-Bromofluorobenzene (Surr)

Dibromofluoromethane

Analyte	Result Qual	ifier RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	<5.0	5.0	0.15	ug/L			06/28/21 18:49	1
Chloromethane	<5.0	5.0	0.32	ug/L			06/28/21 18:49	1
Vinyl chloride	<2.0	2.0	0.20	ug/L			06/28/21 18:49	1
Bromomethane	<5.0	5.0	0.80	ug/L			06/28/21 18:49	1
Chloroethane	<5.0	5.0	0.51	ug/L			06/28/21 18:49	1
1,1-Dichloroethene	<5.0	5.0	0.39	ug/L			06/28/21 18:49	1
Carbon disulfide	<5.0	5.0	0.45	ug/L			06/28/21 18:49	1
Acetone	<20	20	1.7	ug/L			06/28/21 18:49	1
Methylene Chloride	<10	10	1.6	ug/L			06/28/21 18:49	1
trans-1,2-Dichloroethene	<5.0	5.0	0.35	ug/L			06/28/21 18:49	1
1,1-Dichloroethane	<5.0	5.0	0.41	ug/L			06/28/21 18:49	1
cis-1,2-Dichloroethene	<5.0	5.0	0.41	ug/L			06/28/21 18:49	1
Methyl Ethyl Ketone	<20	20	2.1	ug/L			06/28/21 18:49	1
Chloroform	<5.0	5.0	0.37	ug/L			06/28/21 18:49	1
1,1,1-Trichloroethane	<5.0	5.0	0.38	ug/L			06/28/21 18:49	1
Carbon tetrachloride	<5.0	5.0	0.38	ug/L			06/28/21 18:49	1
1,2-Dichloroethane	<5.0	5.0	0.39	ug/L			06/28/21 18:49	1
Trichloroethene	<5.0	5.0	0.16	ug/L			06/28/21 18:49	1
1,2-Dichloropropane	<5.0	5.0	0.43	ug/L			06/28/21 18:49	1
Bromodichloromethane	<5.0	5.0	0.37	ug/L			06/28/21 18:49	1
cis-1,3-Dichloropropene	<5.0	5.0	0.42	ug/L			06/28/21 18:49	1
methyl isobutyl ketone	<20	20	2.2	ug/L			06/28/21 18:49	1
Toluene	<5.0	5.0		ug/L			06/28/21 18:49	1
trans-1,3-Dichloropropene	<5.0	5.0	0.36	ug/L			06/28/21 18:49	1
1,1,2-Trichloroethane	<5.0	5.0	0.35	ug/L			06/28/21 18:49	1
Tetrachloroethene	<5.0	5.0	0.37	ug/L			06/28/21 18:49	1
2-Hexanone	<20	20	1.6	ug/L			06/28/21 18:49	1
Dibromochloromethane	<5.0	5.0	0.49	ug/L			06/28/21 18:49	1
Chlorobenzene	<5.0	5.0	0.39	ug/L			06/28/21 18:49	1
Ethylbenzene	<5.0	5.0	0.18	ug/L			06/28/21 18:49	1
Styrene	<5.0	5.0	0.39	ug/L			06/28/21 18:49	1
Bromoform	<5.0	5.0		ug/L			06/28/21 18:49	1
1,1,2,2-Tetrachloroethane	<5.0	5.0		ug/L			06/28/21 18:49	1
Xylenes, Total	<5.0	5.0	0.22	ug/L			06/28/21 18:49	1
Surrogate	%Recovery Qual	lifier Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91	75 - 126			-		06/28/21 18:49	1
Toluene-d8 (Surr)	98	75 - 120					06/28/21 18:49	1

06/28/21 18:49

06/28/21 18:49

72 - 124

75 - 120

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Lab Sample ID: 500-200915-11

Matrix: Water

Job ID: 500-200915-1

Client Sample ID: Trip Blank Date Collected: 06/15/21 00:00

Date Received: 06/16/21 09:50

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

methyl isobutyl ketone

1,1,2-Trichloroethane

Dibromochloromethane

Tetrachloroethene

2-Hexanone

Chlorobenzene

Ethylbenzene

Styrene

Bromoform

Toluene

Method: 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier **MDL** Unit Dil Fac **Analyte** RL D Prepared Analyzed Benzene <5.0 5.0 0.15 ug/L 06/28/21 13:25 <5.0 5.0 Chloromethane 0.32 ug/L 06/28/21 13:25 Vinyl chloride <2.0 2.0 0.20 ug/L 06/28/21 13:25 Bromomethane < 5.0 5.0 0.80 ug/L 06/28/21 13:25 Chloroethane < 5.0 5.0 0.51 ug/L 06/28/21 13:25 1.1-Dichloroethene < 5.0 5.0 0.39 ug/L 06/28/21 13:25 Carbon disulfide <5.0 5.0 0.45 ug/L 06/28/21 13:25 Acetone <20 20 06/28/21 13:25 1.7 ug/L Methylene Chloride <10 10 1.6 ug/L 06/28/21 13:25 06/28/21 13:25 trans-1,2-Dichloroethene <5.0 5.0 0.35 ug/L 1,1-Dichloroethane < 5.0 5.0 0.41 ug/L 06/28/21 13:25 cis-1.2-Dichloroethene < 5.0 5.0 0.41 ug/L 06/28/21 13:25 Methyl Ethyl Ketone <20 20 2.1 ug/L 06/28/21 13:25 Chloroform <5.0 5.0 0.37 ug/L 06/28/21 13:25 1,1,1-Trichloroethane <5.0 5.0 0.38 ug/L 06/28/21 13:25 Carbon tetrachloride <5.0 5.0 0.38 ug/L 06/28/21 13:25 1,2-Dichloroethane <5.0 5.0 0.39 ug/L 06/28/21 13:25 Trichloroethene <5.0 5.0 0.16 ug/L 06/28/21 13:25 1,2-Dichloropropane < 5.0 5.0 0.43 ug/L 06/28/21 13:25 Bromodichloromethane < 5.0 5.0 0.37 ug/L 06/28/21 13:25

5.0

20

5.0

5.0

5.0

5.0

20

5.0

5.0

5.0

5.0

5.0

0.42 ug/L

2.2 ug/L

0.15 ug/L

0.36 ug/L

0.35 ug/L

0.37 ug/L

1.6 ug/L

0.49 ug/L

0.39 ug/L

0.18 ug/L

0.39 ug/L

0.48 ug/L

<5.0

<20

<5.0

<5.0

<5.0

< 5.0

<20

<5.0

<5.0

<5.0

<5.0

<5.0

1,1,2,2-Tetrachloroethane	<5.0	5.0	0.40 ug/L		06/28/21 13:25	1
Xylenes, Total	<5.0	5.0	0.22 ug/L		06/28/21 13:25	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89	75 - 126			06/28/21 13:25	1
Toluene-d8 (Surr)	96	75 - 120			06/28/21 13:25	1
4-Bromofluorobenzene (Surr)	108	72 - 124			06/28/21 13:25	1
Dibromofluoromethane	101	75 - 120			06/28/21 13:25	1

06/28/21 13:25

06/28/21 13:25

06/28/21 13:25

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Definitions/Glossary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Chicago

QC Association Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

GC/MS VOA

Analysis Batch: 606438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200915-1	IPC GW MW2	Total/NA	Water	8260B	
500-200915-2	IPC GW MW1	Total/NA	Water	8260B	
500-200915-3	IPC GW MW3	Total/NA	Water	8260B	
500-200915-4	IPC GW MW4	Total/NA	Water	8260B	
500-200915-5	IPC GW MW5	Total/NA	Water	8260B	
500-200915-6	IPC GW MW6	Total/NA	Water	8260B	
500-200915-7	IPC GW MW7	Total/NA	Water	8260B	
500-200915-8	IPC GW MW8	Total/NA	Water	8260B	
500-200915-9	IPC GW MW9	Total/NA	Water	8260B	
500-200915-10	IPC FB	Total/NA	Water	8260B	
500-200915-11	Trip Blank	Total/NA	Water	8260B	
MB 500-606438/7	Method Blank	Total/NA	Water	8260B	
LCS 500-606438/5	Lab Control Sample	Total/NA	Water	8260B	
500-200915-6 MS	IPC GW MW6	Total/NA	Water	8260B	
500-200915-6 MSD	IPC GW MW6	Total/NA	Water	8260B	

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Surrogate Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				ercent Surro	•
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-200915-1	IPC GW MW2	90	97	108	96
500-200915-2	IPC GW MW1	91	95	107	99
500-200915-3	IPC GW MW3	93	94	108	101
500-200915-4	IPC GW MW4	92	95	108	100
500-200915-5	IPC GW MW5	90	96	108	98
500-200915-6	IPC GW MW6	90	96	109	101
500-200915-6 MS	IPC GW MW6	88	101	93	101
500-200915-6 MSD	IPC GW MW6	89	100	94	101
500-200915-7	IPC GW MW7	90	96	110	99
500-200915-8	IPC GW MW8	90	95	108	98
500-200915-9	IPC GW MW9	90	99	108	98
500-200915-10	IPC FB	91	98	112	98
500-200915-11	Trip Blank	89	96	108	101
LCS 500-606438/5	Lab Control Sample	89	99	93	100
MB 500-606438/7	Method Blank	87	97	111	97

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

Client: Environmental Information Logistics (EIL Job ID: 500-200915-1 Project/Site: Interstate Pollution Control Site

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-606438/7

Matrix: Water

Analysis Batch: 606438

Client Sample ID: Method Blank **Prep Type: Total/NA**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0	0.15	ug/L			06/28/21 10:55	1
Chloromethane	<5.0		5.0	0.32	ug/L			06/28/21 10:55	1
Vinyl chloride	<2.0		2.0	0.20	ug/L			06/28/21 10:55	1
Bromomethane	<5.0		5.0	0.80	ug/L			06/28/21 10:55	1
Chloroethane	<5.0		5.0	0.51	ug/L			06/28/21 10:55	1
1,1-Dichloroethene	<5.0		5.0	0.39	ug/L			06/28/21 10:55	1
Carbon disulfide	<5.0		5.0	0.45	ug/L			06/28/21 10:55	1
Acetone	<20		20	1.7	ug/L			06/28/21 10:55	1
Methylene Chloride	<10		10	1.6	ug/L			06/28/21 10:55	1
trans-1,2-Dichloroethene	<5.0		5.0	0.35	ug/L			06/28/21 10:55	1
1,1-Dichloroethane	<5.0		5.0	0.41	ug/L			06/28/21 10:55	1
cis-1,2-Dichloroethene	<5.0		5.0	0.41	ug/L			06/28/21 10:55	1
Methyl Ethyl Ketone	<20		20	2.1	ug/L			06/28/21 10:55	1
Chloroform	<5.0		5.0	0.37	ug/L			06/28/21 10:55	1
1,1,1-Trichloroethane	<5.0		5.0	0.38	ug/L			06/28/21 10:55	1
Carbon tetrachloride	<5.0		5.0	0.38	ug/L			06/28/21 10:55	1
1,2-Dichloroethane	<5.0		5.0	0.39	ug/L			06/28/21 10:55	1
Trichloroethene	<5.0		5.0	0.16	ug/L			06/28/21 10:55	1
1,2-Dichloropropane	<5.0		5.0	0.43	ug/L			06/28/21 10:55	1
Bromodichloromethane	<5.0		5.0	0.37	ug/L			06/28/21 10:55	1
cis-1,3-Dichloropropene	<5.0		5.0	0.42	ug/L			06/28/21 10:55	1
methyl isobutyl ketone	<20		20	2.2	ug/L			06/28/21 10:55	1
Toluene	<5.0		5.0	0.15	ug/L			06/28/21 10:55	1
trans-1,3-Dichloropropene	<5.0		5.0	0.36	ug/L			06/28/21 10:55	1
1,1,2-Trichloroethane	<5.0		5.0	0.35	ug/L			06/28/21 10:55	1
Tetrachloroethene	<5.0		5.0	0.37	ug/L			06/28/21 10:55	1
2-Hexanone	<20		20	1.6	ug/L			06/28/21 10:55	1
Dibromochloromethane	<5.0		5.0	0.49	ug/L			06/28/21 10:55	1
Chlorobenzene	<5.0		5.0	0.39	ug/L			06/28/21 10:55	1
Ethylbenzene	<5.0		5.0	0.18	ug/L			06/28/21 10:55	1
Styrene	<5.0		5.0	0.39	ug/L			06/28/21 10:55	1
Bromoform	<5.0		5.0		ug/L			06/28/21 10:55	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			06/28/21 10:55	1
Xylenes, Total	<5.0		5.0		ug/L			06/28/21 10:55	1

MB	MB	

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87	75 - 126		06/28/21 10:55	1
Toluene-d8 (Surr)	97	75 - 120	(06/28/21 10:55	1
4-Bromofluorobenzene (Surr)	111	72 - 124	(06/28/21 10:55	1
Dibromofluoromethane	97	75 - 120	(06/28/21 10:55	1

Lab Sample ID: LCS 500-606438/5

Matr

Ana

trix: Water			Prep Type: Total/NA
alysis Batch: 606438			
	Spike	LCS LCS	%Rec.

	Opine	LOO	LUU				/01 10 0.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	 50.0	46.6		ug/L		93	70 - 120	
Chloromethane	50.0	62.4		ug/L		125	56 - 152	

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Client Sample ID: Lab Control Sample

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Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-606438/5

Matrix: Water

Analysis Batch: 606438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier Ur	it	D %Rec	Limits
Vinyl chloride	50.0	62.8	ug	/L	126	64 - 126
Bromomethane	50.0	55.3	ug	/L	111	40 - 152
Chloroethane	50.0	54.4	ug	/L	109	48 - 136
1,1-Dichloroethene	50.0	45.3	ug	/L	91	67 - 122
Carbon disulfide	50.0	48.5	ug	/L	97	66 - 120
Acetone	50.0	45.9	ug	/L	92	40 - 143
Methylene Chloride	50.0	46.2	ug	/L	92	69 - 125
trans-1,2-Dichloroethene	50.0	47.2	ug	/L	94	70 - 125
1,1-Dichloroethane	50.0	50.7	ug	/L	101	70 - 125
cis-1,2-Dichloroethene	50.0	47.4	ug	/L	95	70 - 125
Methyl Ethyl Ketone	50.0	43.8	ug	/L	88	46 - 144
Chloroform	50.0	45.4	ug	/L	91	70 - 120
1,1,1-Trichloroethane	50.0	48.9	ug	/L	98	70 - 125
Carbon tetrachloride	50.0	44.0	ug	/L	88	59 - 133
1,2-Dichloroethane	50.0	41.4	ug	/L	83	68 - 127
Trichloroethene	50.0	46.9	ug	/L	94	70 - 125
1,2-Dichloropropane	50.0	48.5	ug	/L	97	67 - 130
Bromodichloromethane	50.0	43.3	ug	/L	87	69 - 120
cis-1,3-Dichloropropene	50.0	42.9	ug	/L	86	64 - 127
methyl isobutyl ketone	50.0	44.9	ug	/L	90	55 - 139
Toluene	50.0	44.6	ug	/L	89	70 - 125
trans-1,3-Dichloropropene	50.0	38.5	ug	/L	77	62 - 128
1,1,2-Trichloroethane	50.0	42.5	ug	/L	85	71 - 130
Tetrachloroethene	50.0	51.2	ug	/L	102	70 - 128
2-Hexanone	50.0	47.6	ug	/L	95	54 - 146
Dibromochloromethane	50.0	43.2	ug	/L	86	68 - 125
Chlorobenzene	50.0	44.6	ug	/L	89	70 - 120
Ethylbenzene	50.0	47.5	ug	/L	95	70 - 123
Styrene	50.0	45.1	ug	/L	90	70 - 120
Bromoform	50.0	45.3	ug	/L	91	56 - 132
1,1,2,2-Tetrachloroethane	50.0	43.2	ug	/L	86	62 - 140
Xylenes, Total	100	89.3	ug	/L	89	70 - 125

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		75 - 126
Toluene-d8 (Surr)	99		75 - 120
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane	100		75 - 120

Lab Sample ID: 500-200915-6 MS

Matrix: Water

Analysis Batch: 606438

Client Sample ID: IPC GW MW	6
Pren Type: Total/N	Δ

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<5.0		50.0	49.6		ug/L		99	70 - 120	
Chloromethane	<5.0		50.0	67.7		ug/L		135	56 - 152	
Vinyl chloride	7.5	F1	50.0	77.5	F1	ug/L		140	64 - 126	
Bromomethane	<5.0		50.0	55.6		ug/L		111	40 - 152	

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Client: Environmental Information Logistics (EIL

Job ID: 500-200915-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-200915-6 MS

Project/Site: Interstate Pollution Control Site

Client Sample ID: IPC GW MW6

Matrix: Water Prep Type: Total/NA **Analysis Batch: 606438**

	Sample	Sample	Spike	MS	MS			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D %Rec	Limits	
Chloroethane	<5.0		50.0	56.2		ug/L	112	48 - 136	
1,1-Dichloroethene	<5.0		50.0	46.8		ug/L	94	67 - 122	
Carbon disulfide	<5.0		50.0	51.1		ug/L	102	66 - 120	
Acetone	<20		50.0	33.8		ug/L	68	40 - 143	
Methylene Chloride	<10		50.0	49.4		ug/L	99	69 - 125	
trans-1,2-Dichloroethene	<5.0		50.0	50.4		ug/L	101	70 - 125	
1,1-Dichloroethane	<5.0		50.0	59.8		ug/L	118	70 - 125	
cis-1,2-Dichloroethene	11		50.0	67.5		ug/L	114	70 - 125	
Methyl Ethyl Ketone	<20		50.0	40.1		ug/L	80	46 - 144	
Chloroform	<5.0		50.0	49.2		ug/L	98	70 - 120	
1,1,1-Trichloroethane	<5.0		50.0	52.1		ug/L	102	70 - 125	
Carbon tetrachloride	<5.0		50.0	46.0		ug/L	92	59 - 133	
1,2-Dichloroethane	<5.0		50.0	45.4		ug/L	91	68 - 127	
Trichloroethene	19		50.0	71.9		ug/L	106	70 - 125	
1,2-Dichloropropane	<5.0		50.0	52.7		ug/L	105	67 - 130	
Bromodichloromethane	<5.0		50.0	48.4		ug/L	97	69 - 120	
cis-1,3-Dichloropropene	<5.0		50.0	48.4		ug/L	97	64 - 127	
methyl isobutyl ketone	<20		50.0	44.6		ug/L	89	55 - 139	
Toluene	<5.0		50.0	49.7		ug/L	99	70 - 125	
trans-1,3-Dichloropropene	<5.0		50.0	43.5		ug/L	87	62 - 128	
1,1,2-Trichloroethane	<5.0		50.0	49.1		ug/L	98	71 - 130	
Tetrachloroethene	38		50.0	101		ug/L	127	70 - 128	
2-Hexanone	<20		50.0	42.4		ug/L	85	54 - 146	
Dibromochloromethane	<5.0		50.0	49.7		ug/L	99	68 - 125	
Chlorobenzene	<5.0		50.0	50.0		ug/L	100	70 - 120	
Ethylbenzene	<5.0		50.0	53.0		ug/L	106	70 - 123	
Styrene	<5.0		50.0	51.5		ug/L	103	70 - 120	
Bromoform	<5.0		50.0	53.4		ug/L	107	56 - 132	
1,1,2,2-Tetrachloroethane	<5.0		50.0	48.8		ug/L	98	62 - 140	
Xylenes, Total	<5.0		100	98.1		ug/L	98	70 - 125	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		75 - 126
Toluene-d8 (Surr)	101		75 - 120
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane	101		75 - 120

Lab Sample ID: 500-200915-6 MSD

Matrix: Water

Analysis Batch: 606438

		Prep Ty	pe: Tot	al/NA	
		%Rec.		RPD	
D	%Rec	Limits	RPD	Limit	

Client Sample ID: IPC GW MW6

	Sample Sample	Spike	M2D M2	ט			%Rec.		RPD
Analyte	Result Qualifier	Added	Result Qua	alifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	<5.0	50.0	50.1	ug/L		100	70 - 120	1	20
Chloromethane	<5.0	50.0	67.2	ug/L		134	56 - 152	1	20
Vinyl chloride	7.5 F1	50.0	76.2 F1	ug/L		137	64 - 126	2	20
Bromomethane	<5.0	50.0	56.4	ug/L		113	40 - 152	1	20
Chloroethane	<5.0	50.0	56.2	ug/L		112	48 - 136	0	20
1,1-Dichloroethene	<5.0	50.0	48.0	ug/L		96	67 - 122	3	20
1									

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QC Sample Results

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-200915-6 MSD

Matrix: Water

Analysis Batch: 606438

1,1,2,2-Tetrachloroethane

Xylenes, Total

Client Sample ID: IPC GW MW6

Prep Type: Total/NA

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Carbon disulfide	<5.0		50.0	51.0		ug/L		102	66 - 120	0	20
Acetone	<20		50.0	36.3		ug/L		73	40 - 143	7	20
Methylene Chloride	<10		50.0	49.5		ug/L		99	69 - 125	0	20
trans-1,2-Dichloroethene	<5.0		50.0	51.1		ug/L		102	70 - 125	1	20
1,1-Dichloroethane	<5.0		50.0	55.2		ug/L		109	70 - 125	8	20
cis-1,2-Dichloroethene	11		50.0	62.4		ug/L		104	70 - 125	8	20
Methyl Ethyl Ketone	<20		50.0	38.3		ug/L		77	46 - 144	4	20
Chloroform	<5.0		50.0	49.7		ug/L		99	70 - 120	1	20
1,1,1-Trichloroethane	<5.0		50.0	53.2		ug/L		104	70 - 125	2	20
Carbon tetrachloride	<5.0		50.0	46.2		ug/L		92	59 - 133	0	20
1,2-Dichloroethane	<5.0		50.0	44.9		ug/L		90	68 - 127	1	20
Trichloroethene	19		50.0	72.5		ug/L		108	70 - 125	1	20
1,2-Dichloropropane	<5.0		50.0	54.1		ug/L		108	67 - 130	2	20
Bromodichloromethane	<5.0		50.0	49.0		ug/L		98	69 - 120	1	20
cis-1,3-Dichloropropene	<5.0		50.0	47.5		ug/L		95	64 - 127	2	20
methyl isobutyl ketone	<20		50.0	43.0		ug/L		86	55 - 139	4	20
Toluene	<5.0		50.0	49.3		ug/L		99	70 - 125	1	20
trans-1,3-Dichloropropene	<5.0		50.0	43.5		ug/L		87	62 - 128	0	20
1,1,2-Trichloroethane	<5.0		50.0	48.3		ug/L		97	71 - 130	2	20
Tetrachloroethene	38		50.0	99.4		ug/L		124	70 - 128	2	20
2-Hexanone	<20		50.0	42.9		ug/L		86	54 - 146	1	20
Dibromochloromethane	<5.0		50.0	49.1		ug/L		98	68 - 125	1	20
Chlorobenzene	<5.0		50.0	49.9		ug/L		100	70 - 120	0	20
Ethylbenzene	<5.0		50.0	52.0		ug/L		104	70 - 123	2	20
Styrene	<5.0		50.0	50.9		ug/L		102	70 - 120	1	20
Bromoform	<5.0		50.0	53.6		ug/L		107	56 - 132	0	20

50.0

100

49.6

97.5

ug/L

ug/L

99

98

62 - 140

70 - 125

MSD MSD

<5.0

<5.0

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		75 - 126
Toluene-d8 (Surr)	100		75 - 120
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane	101		75 - 120

20

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Client Sample ID: IPC GW MW2

Date Collected: 06/15/21 10:45 Date Received: 06/16/21 09:50 Lab Sample ID: 500-200915-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			606438	06/28/21 15:06	STW	TAL CHI

Client Sample ID: IPC GW MW1

Date Collected: 06/15/21 11:15 Date Received: 06/16/21 09:50

Lab Sample ID: 500-200915-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 15:31	STW	TAL CHI

Client Sample ID: IPC GW MW3

Date Collected: 06/15/21 10:15 Date Received: 06/16/21 09:50

Lab Sample ID: 500-200915-3

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	8260B		1	606438	06/28/21 15:56	STW	TAL CHI

Client Sample ID: IPC GW MW4

Date Collected: 06/15/21 09:30

Date Received: 06/16/21 09:50

Lab Sample ID: 500-200915-4

Lab Sample ID: 500-200915-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 16:22	STW	TAL CHI

Client Sample ID: IPC GW MW5

Date

Date

e Collected: 06/15/21 08:45	Matrix: Water
e Received: 06/16/21 09:50	Matrix. Vacci

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
ı	Total/NA	Analysis	8260B		1	606438	06/28/21 16:46	STW	TAL CHI

Client Sample ID: IPC GW MW6

Date Collected: 06/15/21 08:15

Date Received: 06/16/21 09:50

Lab Sample	ID:	500-200915-6
		Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 17:11	STW	TAL CHI

Client Sample ID: IPC GW MW7

Date Collected: 06/15/21 07:45

Date Received: 06/16/21 09:50

Lab Sample ID:	500-200915-7
	Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 17:35	STW	TAL CHI

Lab Chronicle

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Lab Sample ID: 500-200915-8

Matrix: Water

Client Sample ID: IPC GW MW8

Date Collected: 06/15/21 07:15 Date Received: 06/16/21 09:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 18:00	STW	TAL CHI

Client Sample ID: IPC GW MW9

Lab Sample ID: 500-200915-9 Date Collected: 06/15/21 06:55 **Matrix: Water**

Date Received: 06/16/21 09:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 18:25	STW	TAL CHI

Client Sample ID: IPC FB

Lab Sample ID: 500-200915-10

Date Collected: 06/15/21 11:40 **Matrix: Water**

Date Received: 06/16/21 09:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	606438	06/28/21 18:49	STW	TAL CHI

Client Sample ID: Trip Blank Lab Sample ID: 500-200915-11

Date Collected: 06/15/21 00:00 **Matrix: Water**

Date Received: 06/16/21 09:50

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B			606438	06/28/21 13:25	STW	TAL CHI	_

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Environmental Information Logistics (EIL Project/Site: Interstate Pollution Control Site

Job ID: 500-200915-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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Chain of Custody Record 533229 ♣ eurofins

Environment Testing

TestAmerica Address _____ Regulatory Program: DW NPDES RCRA Other TAL-8210 COC No Site Contact Date Project Manager **Client Contact** Lab Contact Richard World Carrier COCs Tel/Email Company Name TPC **Analysis Turnaround Time** Sampler Address WORKING DAYS For Lab Use Only CALENDAR DAYS City/State/Zip Walk-in Client TAT if different from Below Phone Lab Sampling Fax 2 weeks Project Name TPC 1 week 50001225 Job / SDG No Site 2 days 500-200915 PO# 1 day Sample Type Sample Sample # of (C=Comp Date Time G=Grab) Matrix Cont. Sample Specific Notes Sample Identification TPC GW MW2 61521 1045 1115 TPC GW MW3 1015 930 TEPC GW MWY 845 IPC GW MWS 9 IPC GW MWG 815 745 715 GW MW9 655 1140 Added by ETA-CHI 6/16/21 Trip Blank Preservation Used 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample ___ Archive for_____ Skin Irritant Poison B Unknown Return to Client Disposal by Lab Non Hazard Flammable Special Instructions/QC Requirements & Comments: Cooler Temp (°C) Obs'd Therm ID No Custody Seals Intact Custody Seal No Yes No Relinguished by Date/Time Received by Company Date/Time Company: 6/521/1230 Cabeno Date/Time Date/Time Re inquished by Company Received by Company Company shed by Date/Time Received in Laboratory by Date/Time Company 1950

Stephanie Hemanderst

ETA-CHI GIIGIZI

Client: Environmental Information Logistics (EIL

Job Number: 500-200915-1

Login Number: 200915

List Number: 1

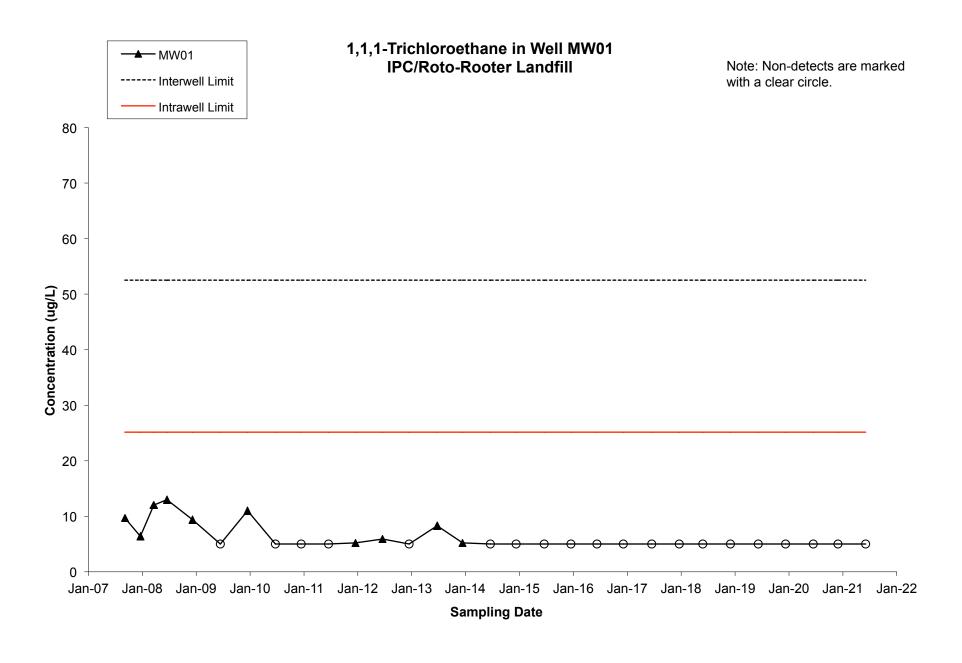
Creator: Hernandez, Stephanie

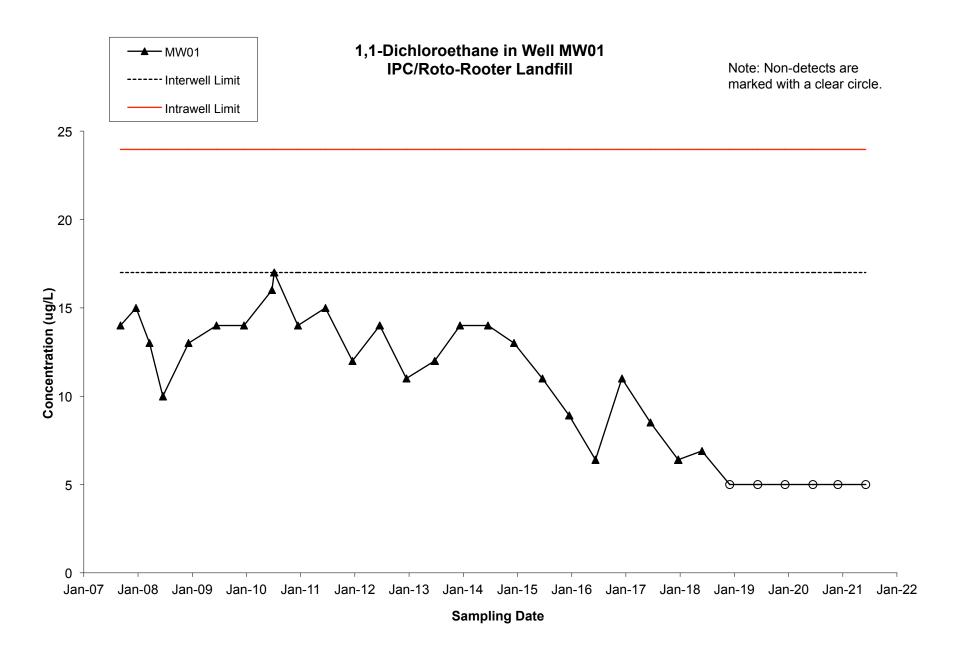
List Source: Eurofins TestAmerica, Chicago

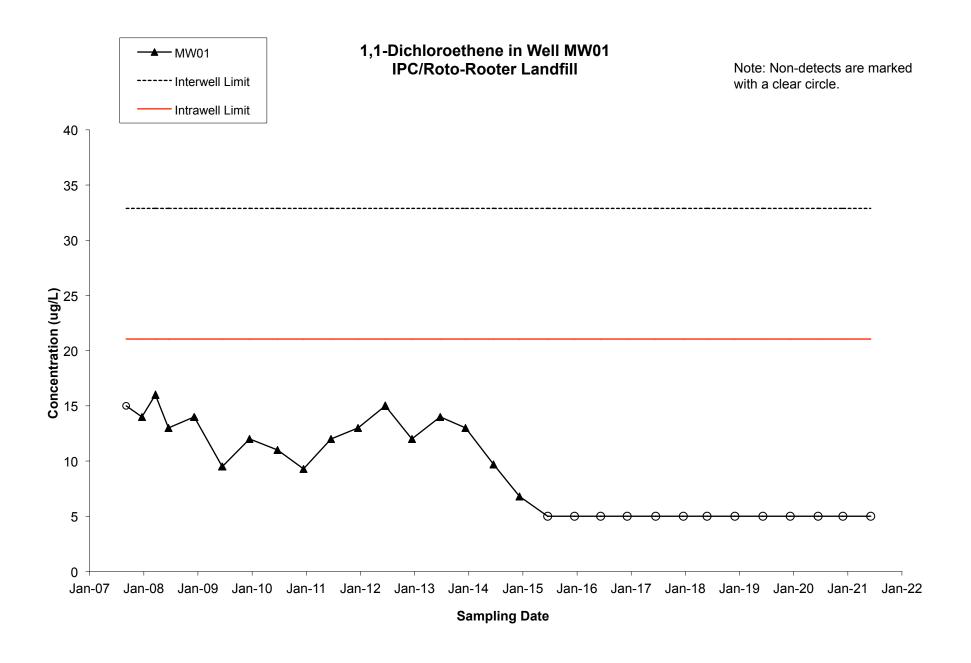
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

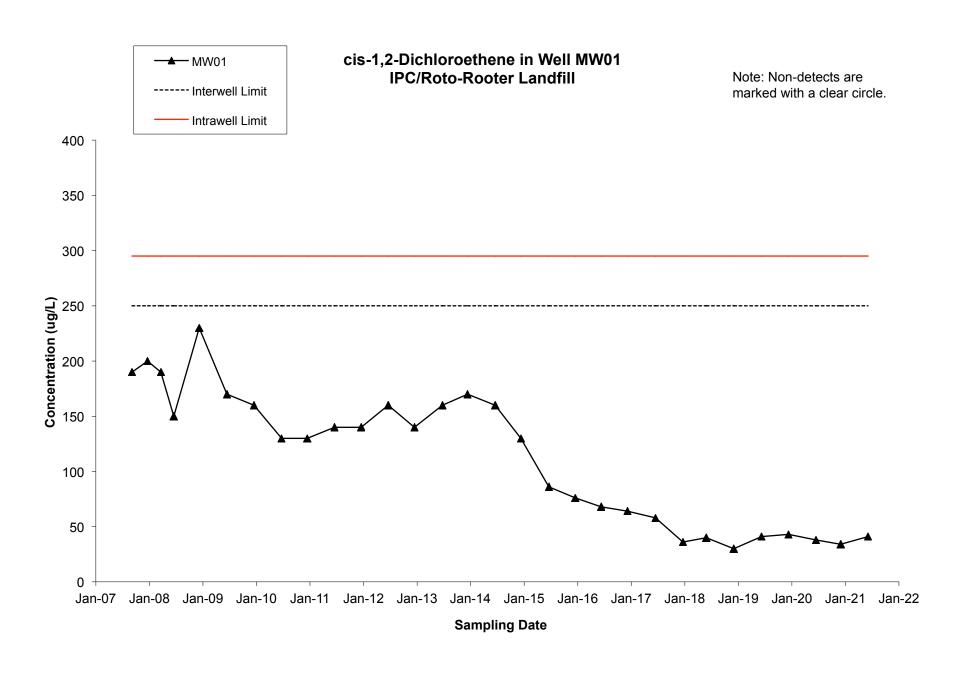
Attachment 2

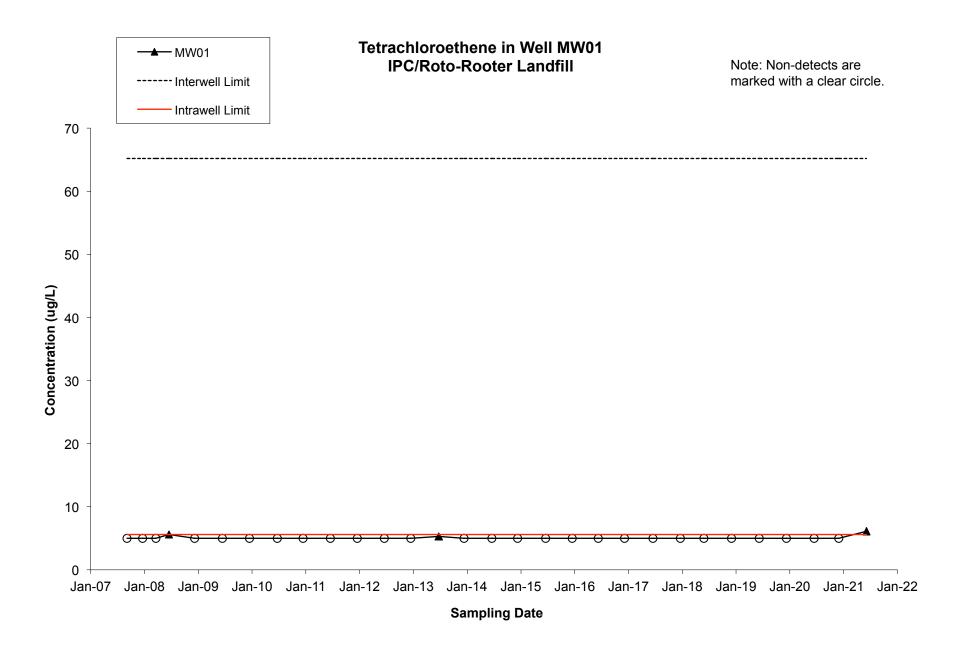
COC Concentration Time Trends

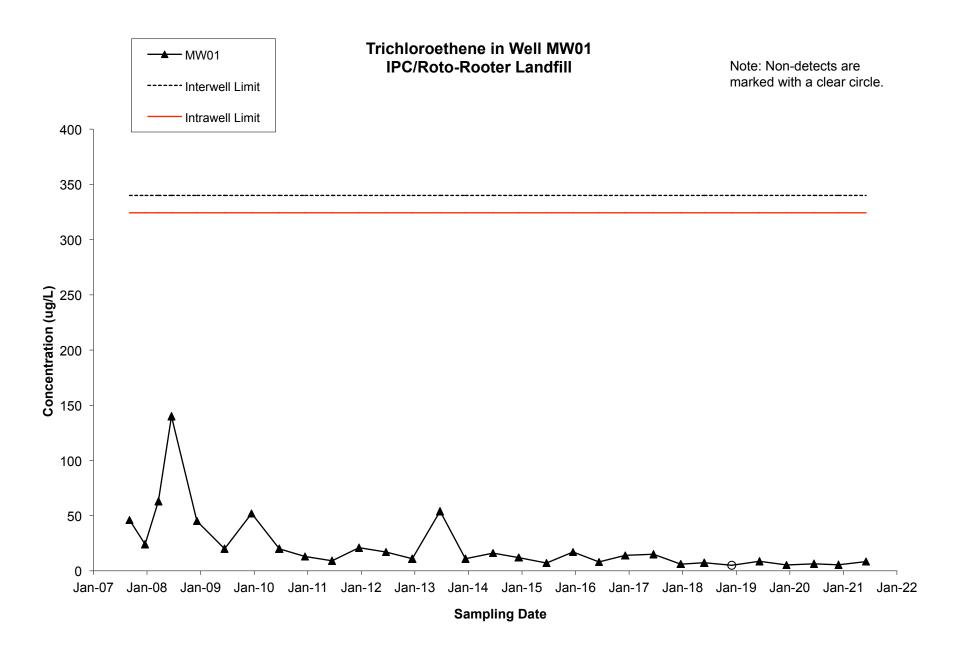


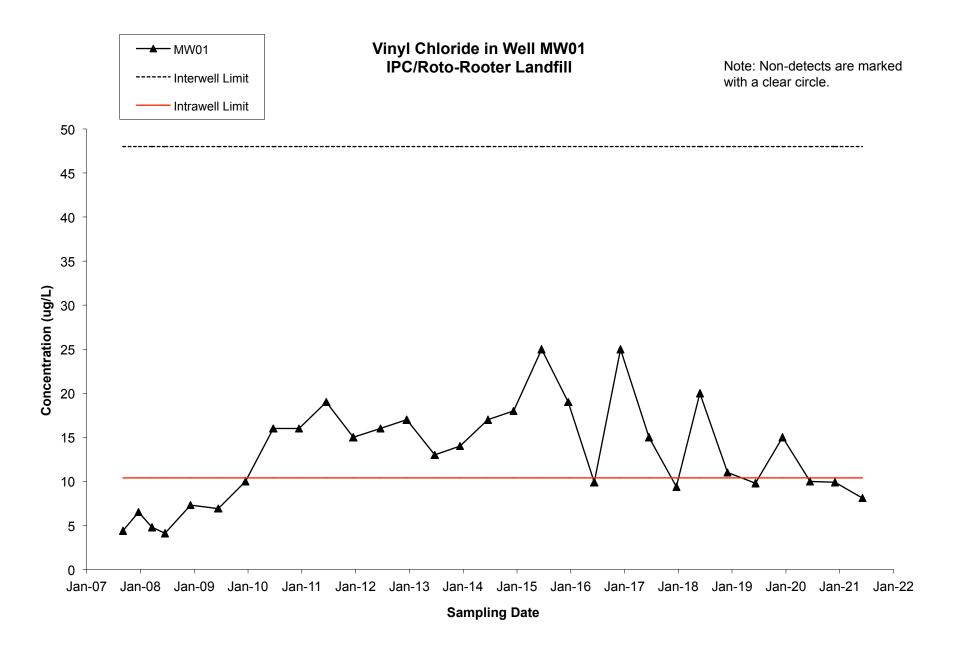


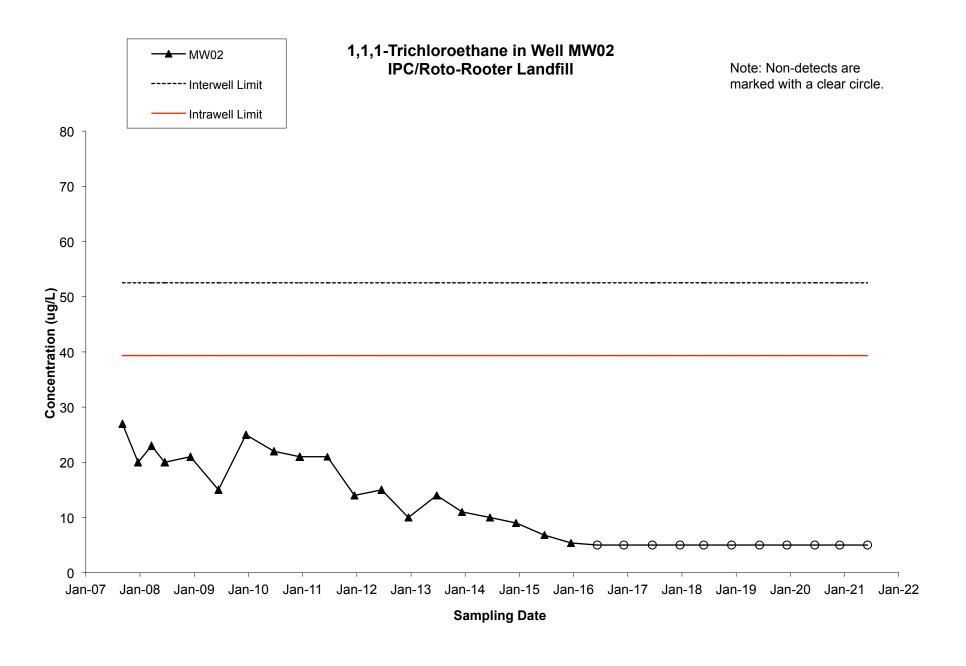


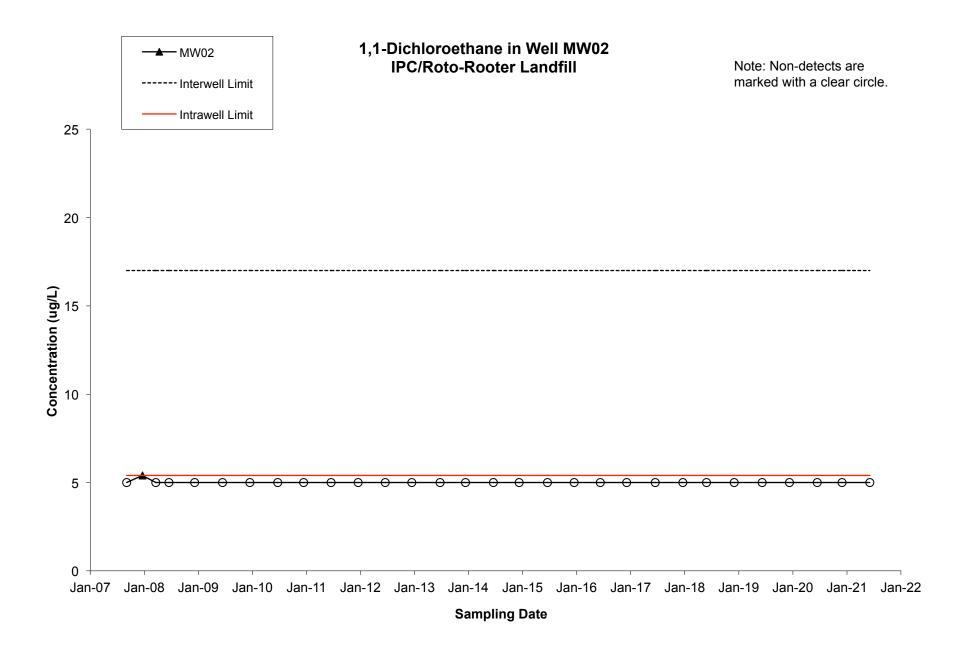


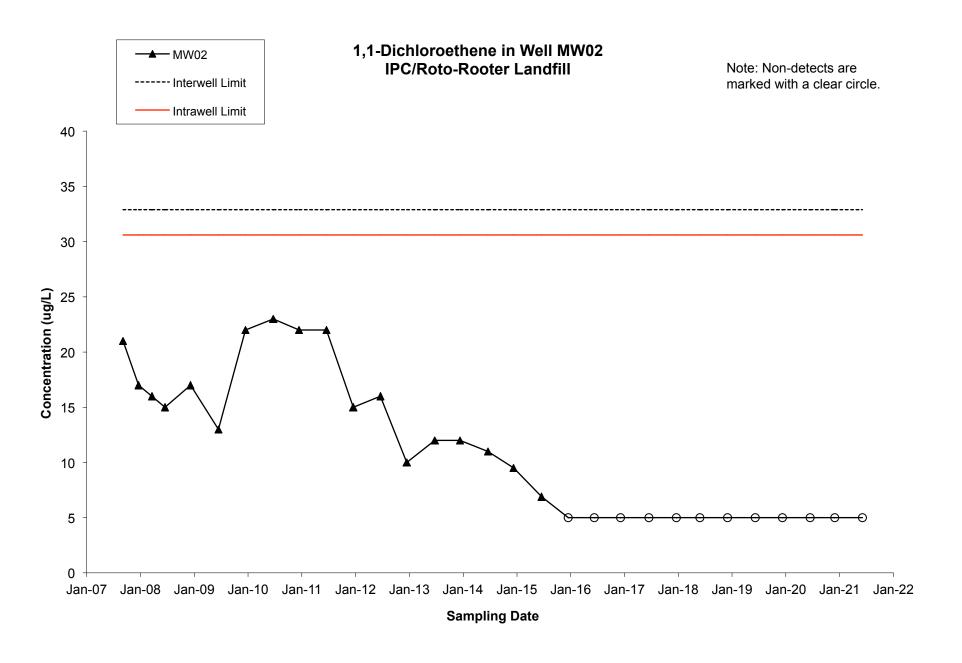


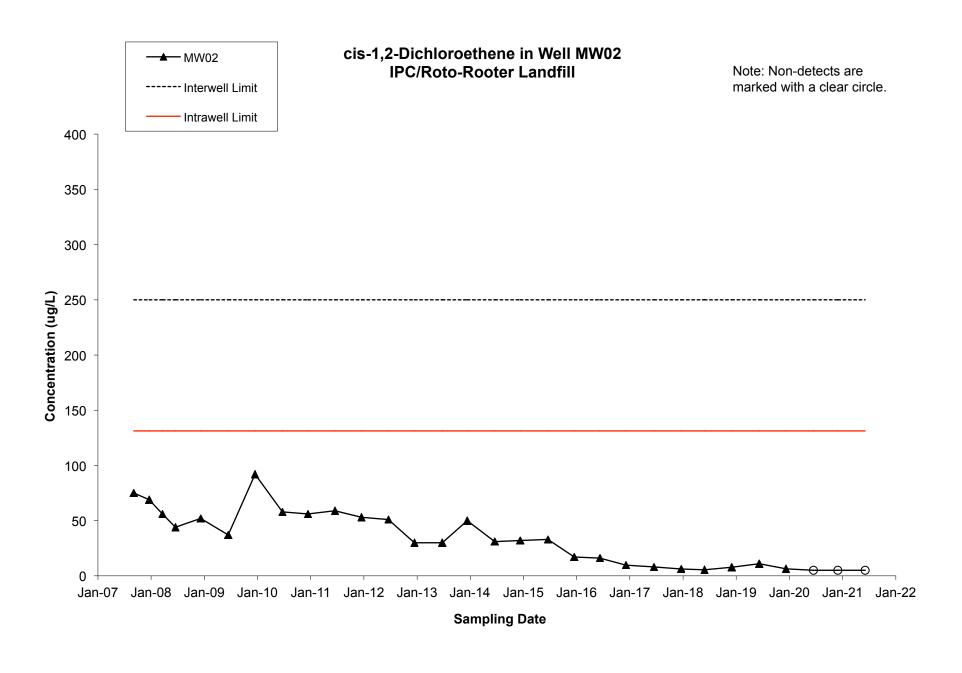


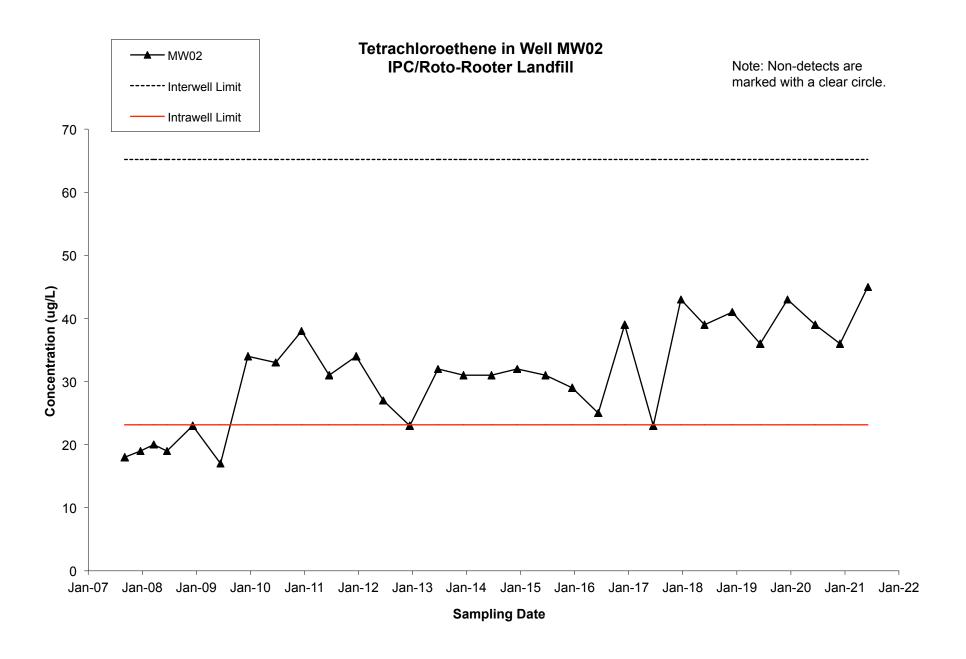


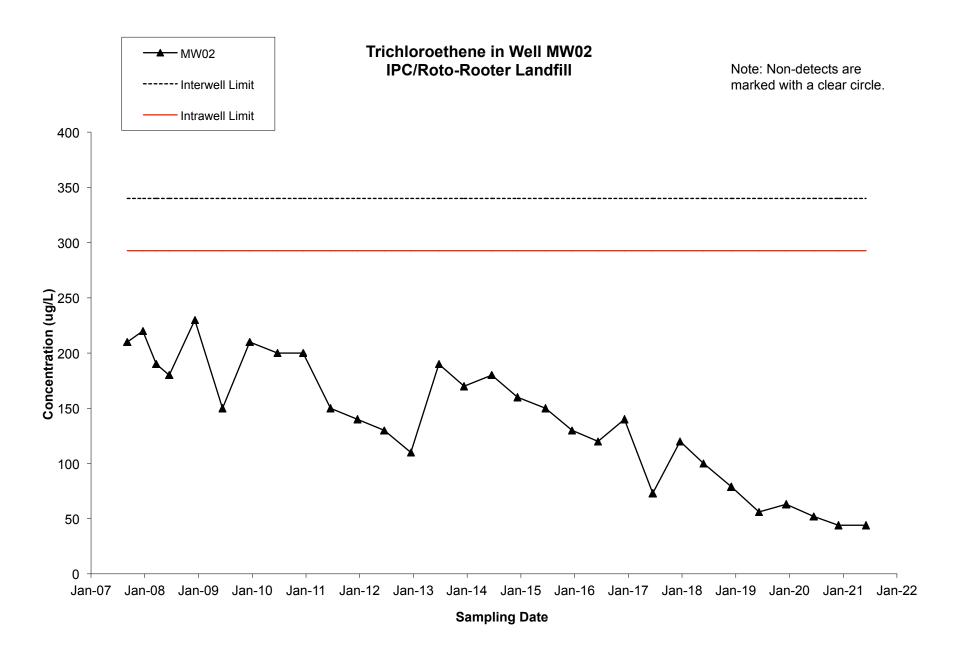


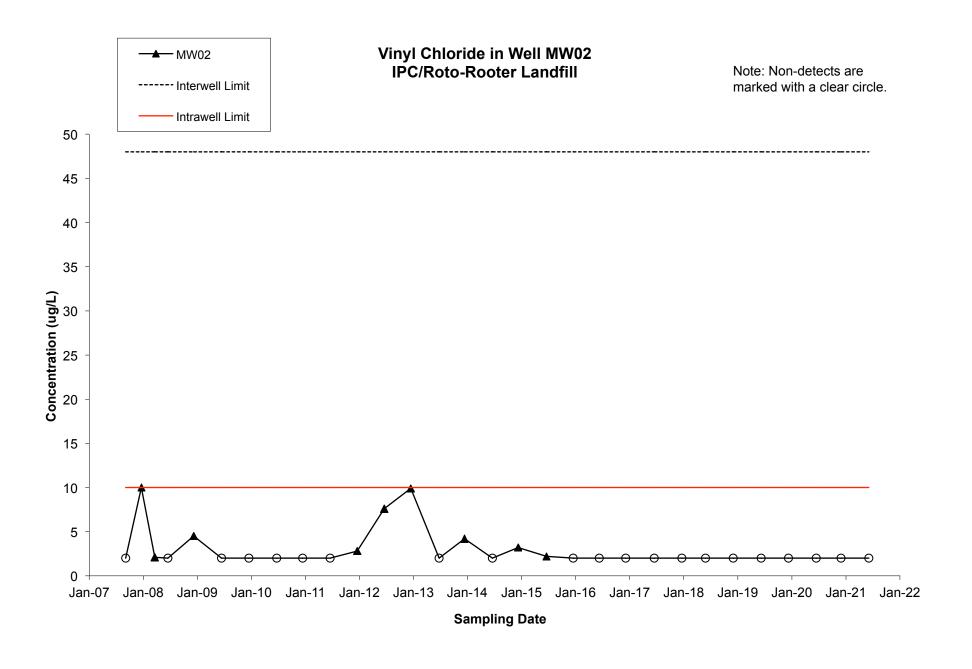


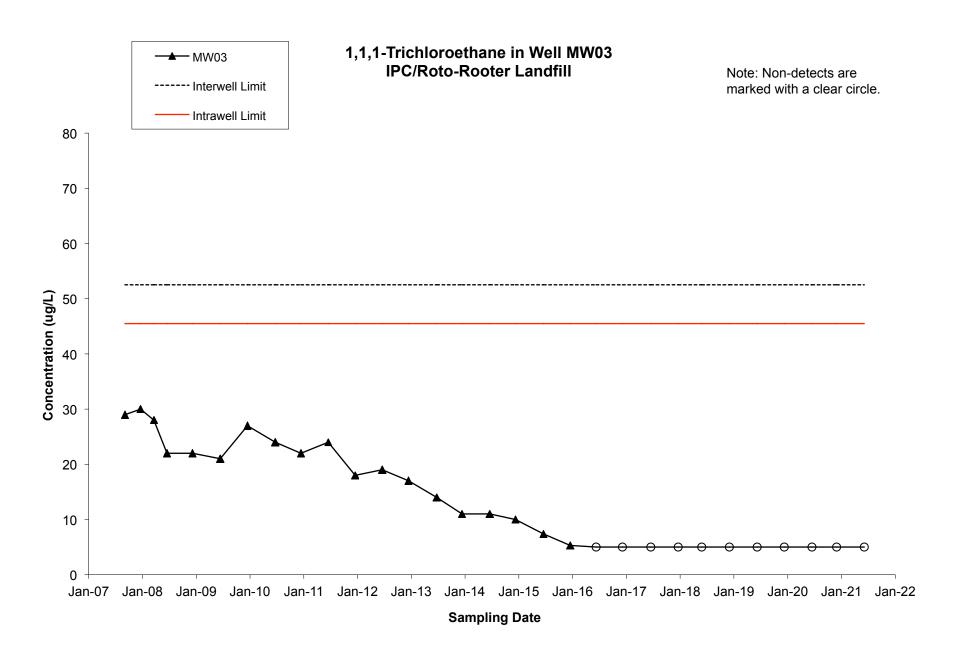


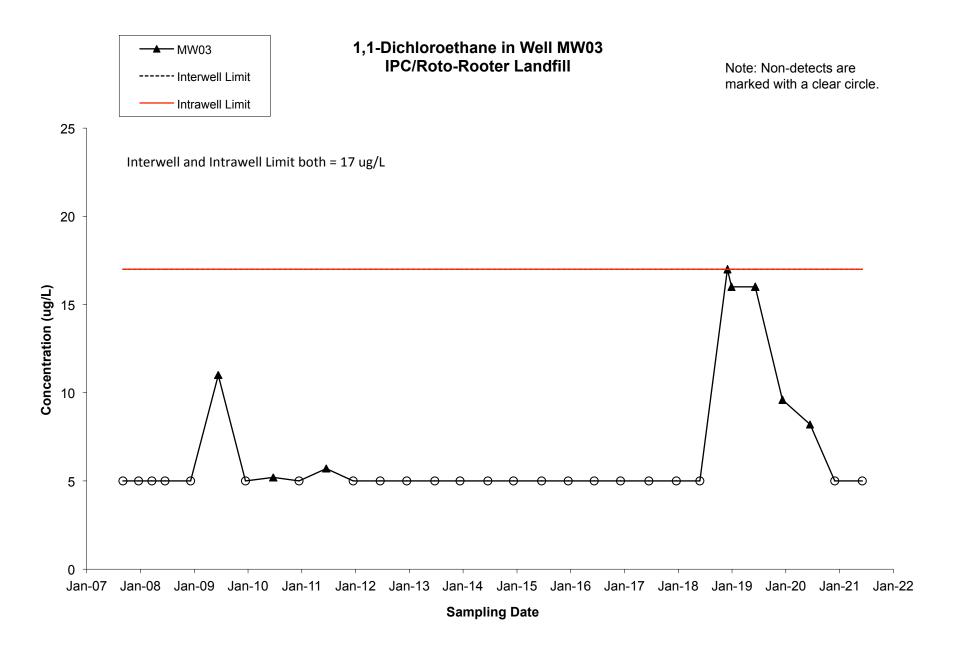


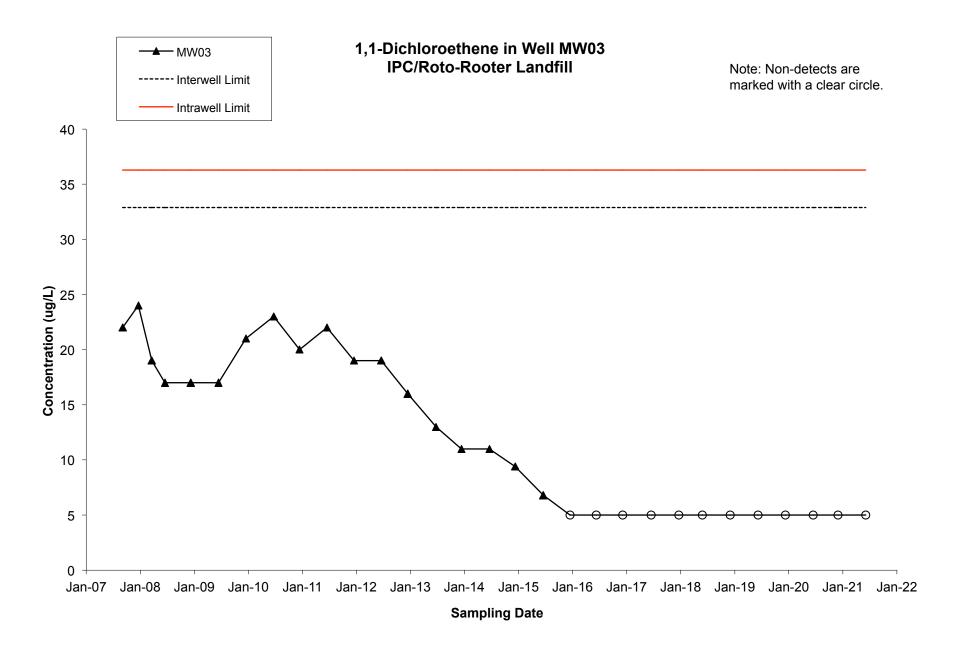


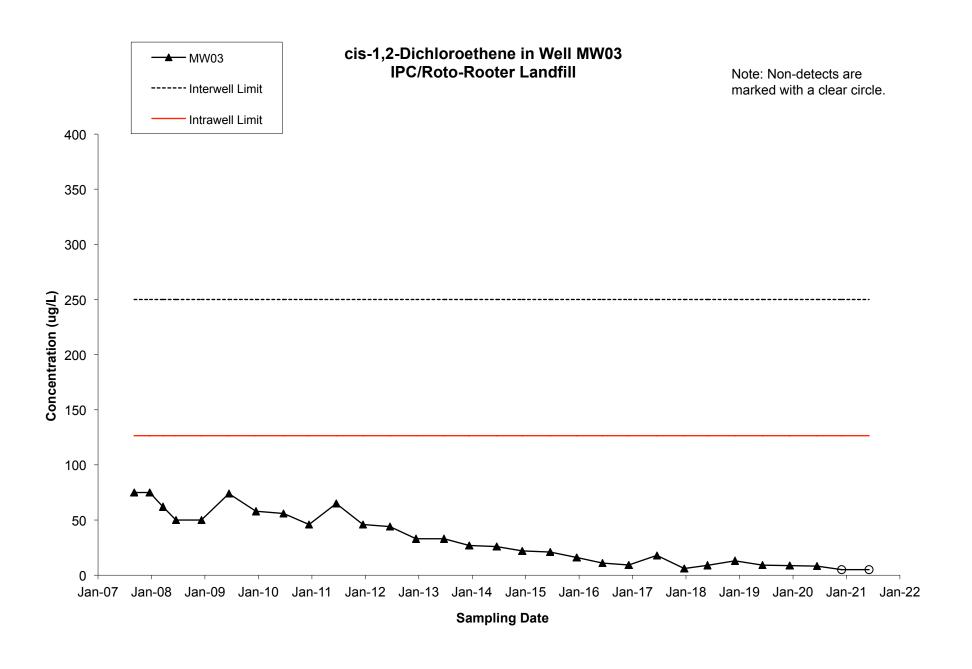


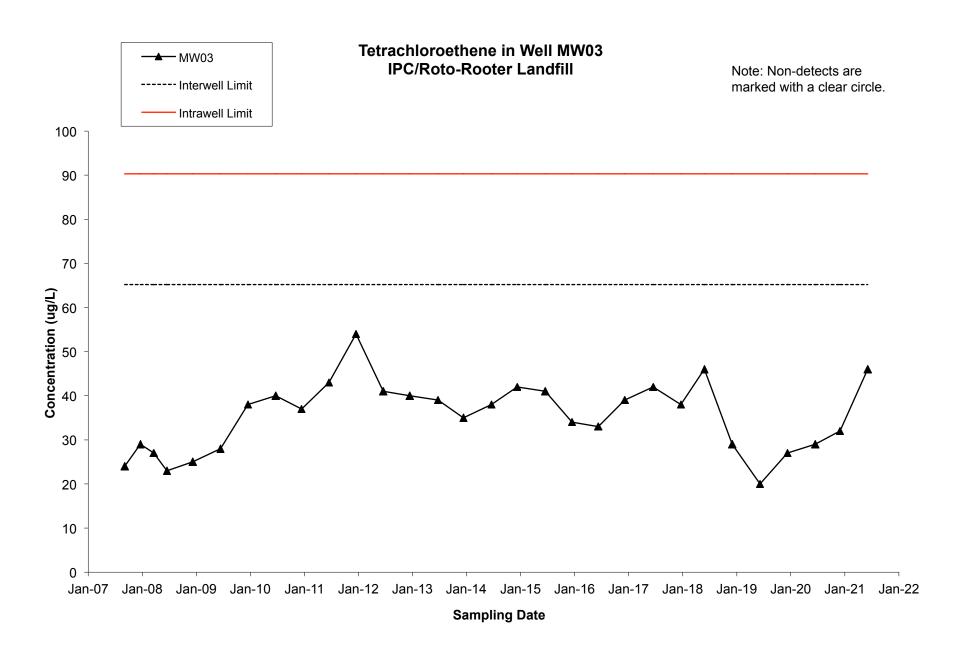


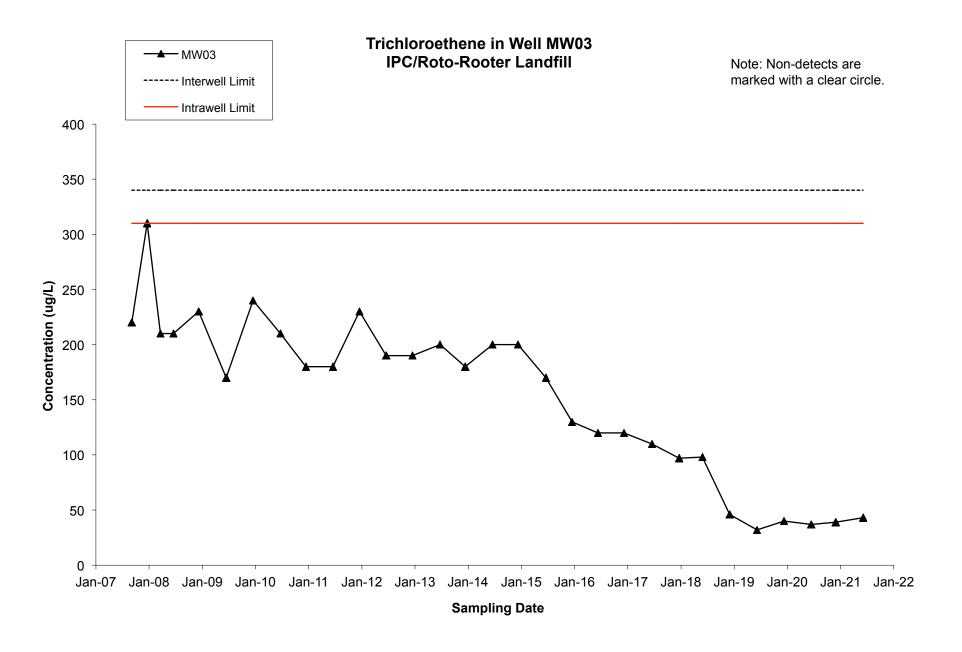


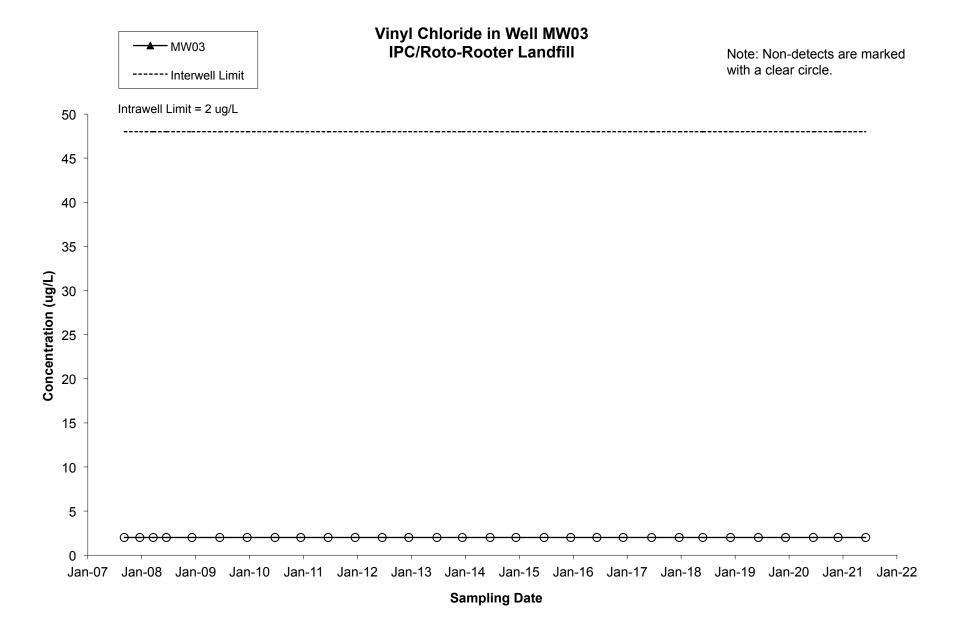


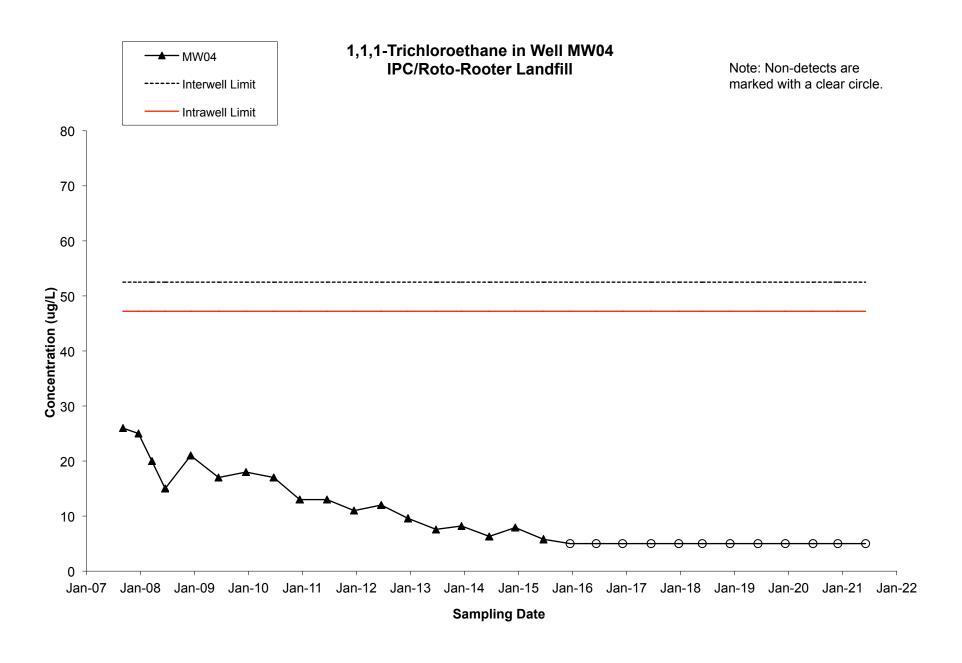


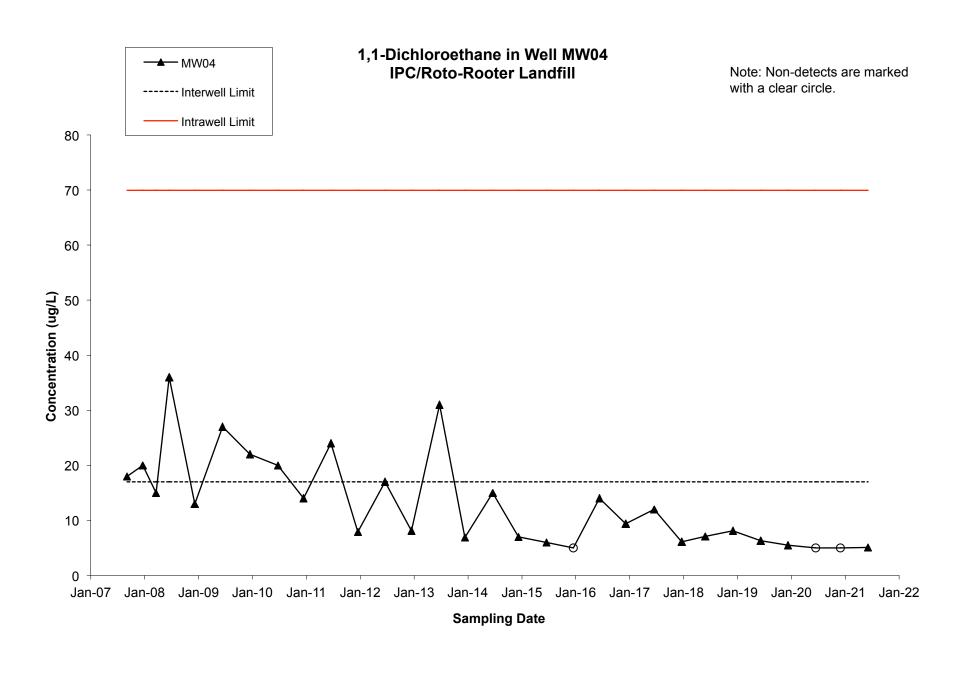


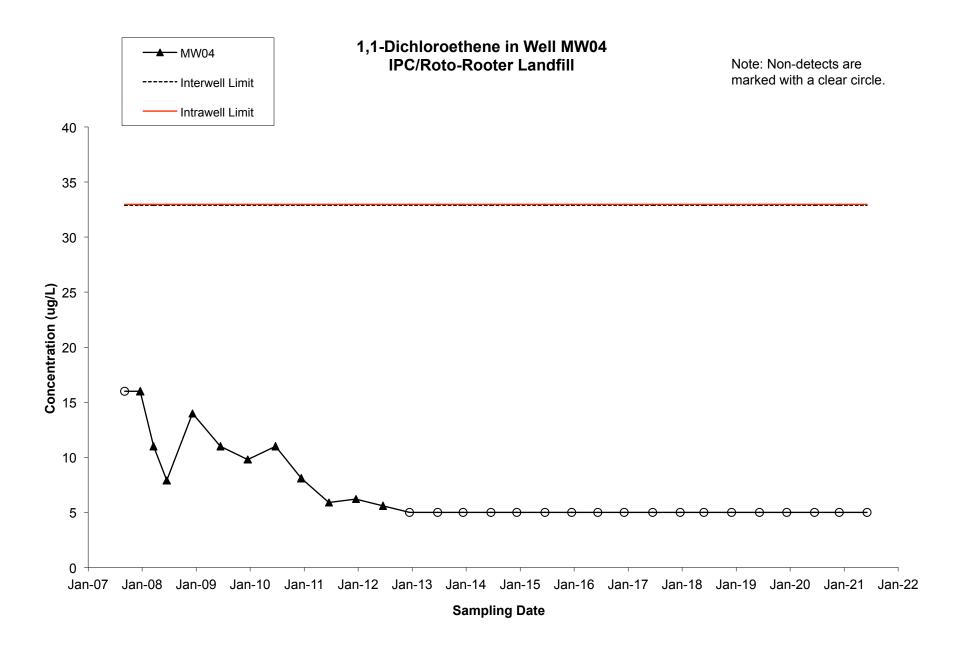


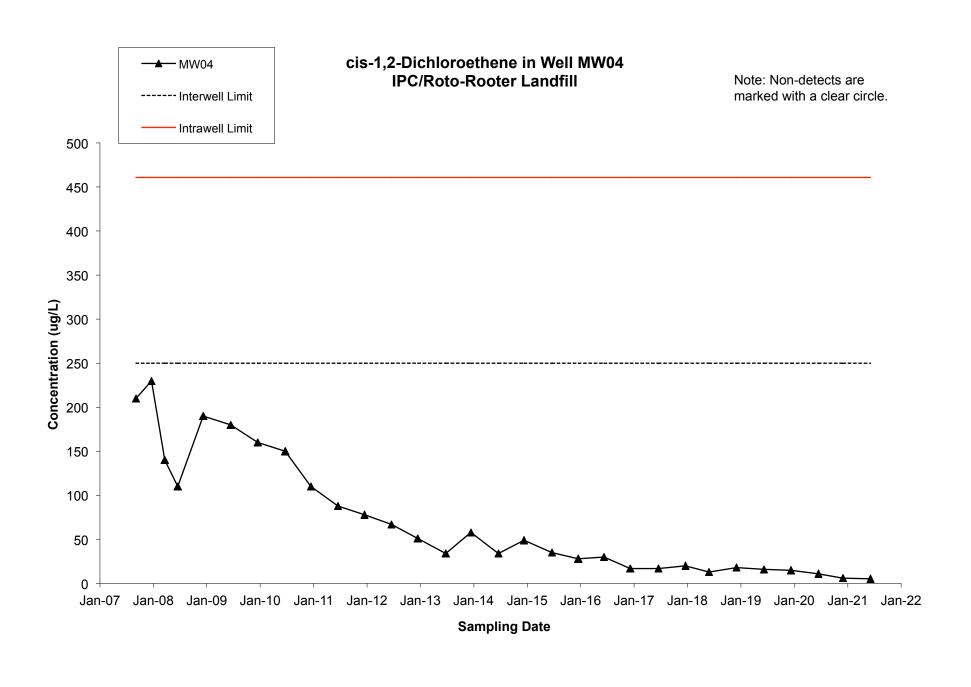


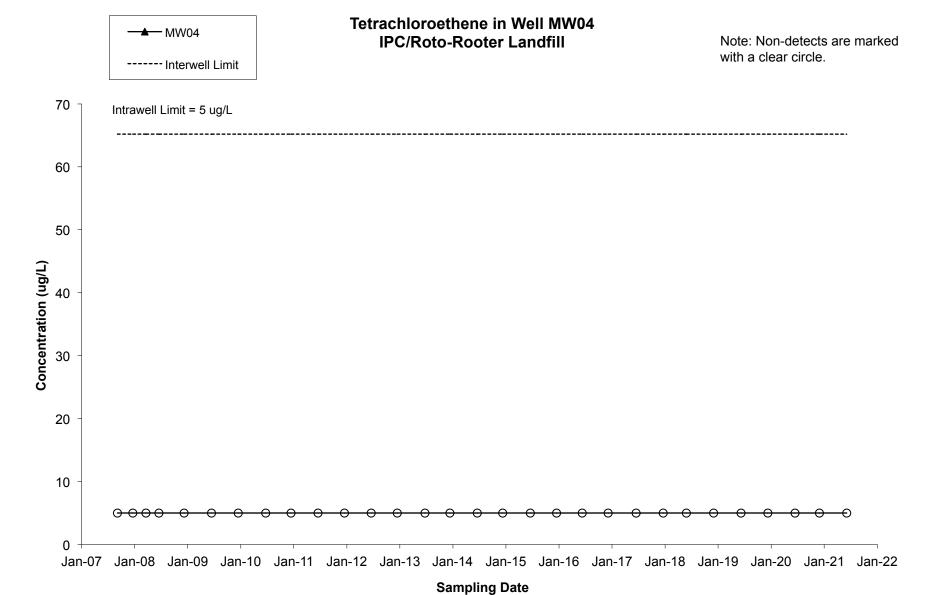


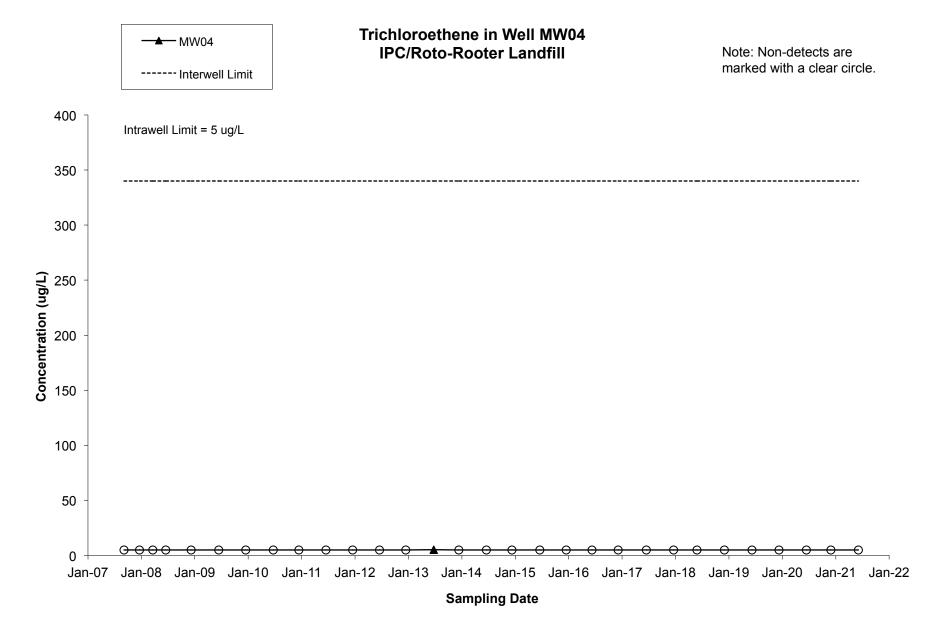


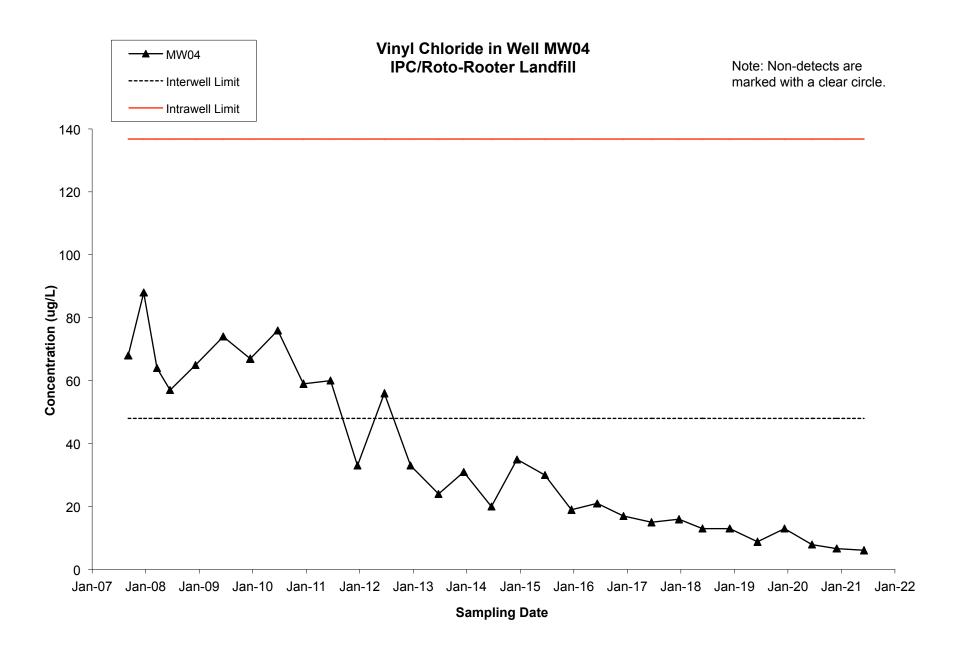


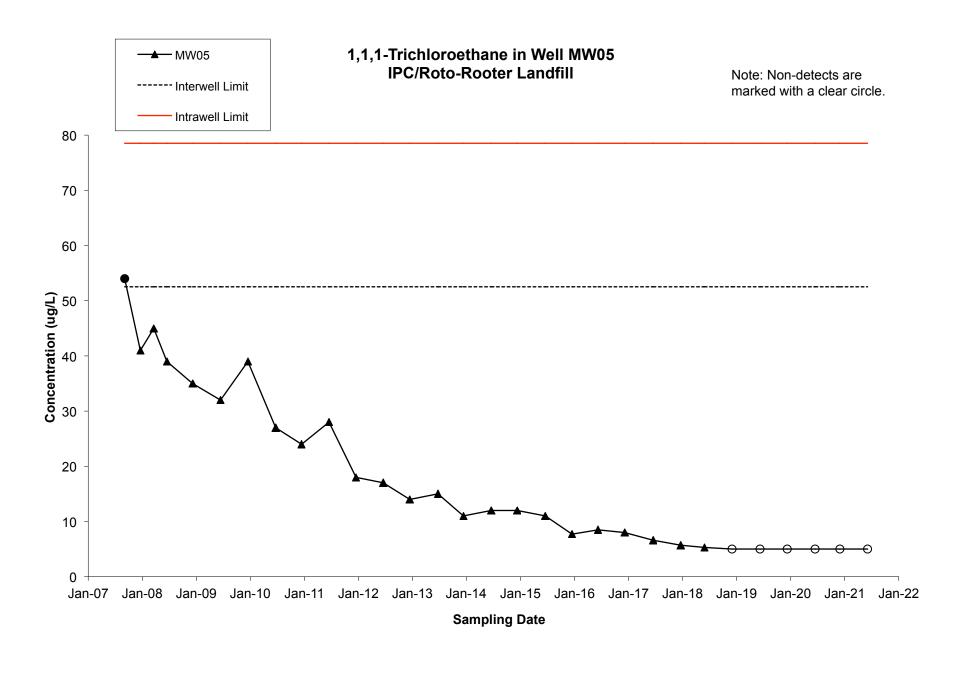


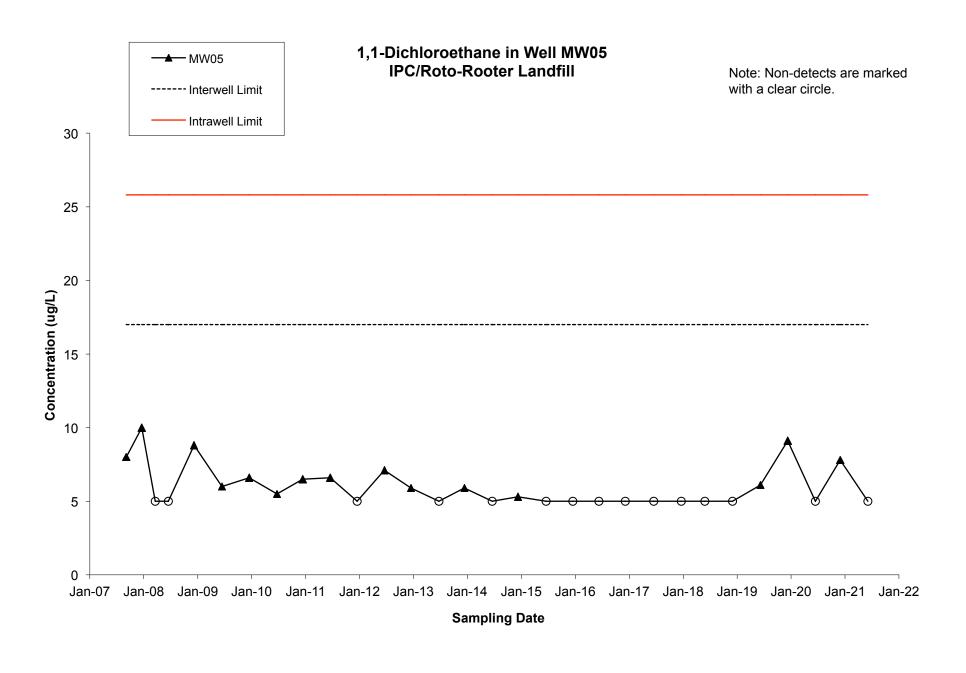


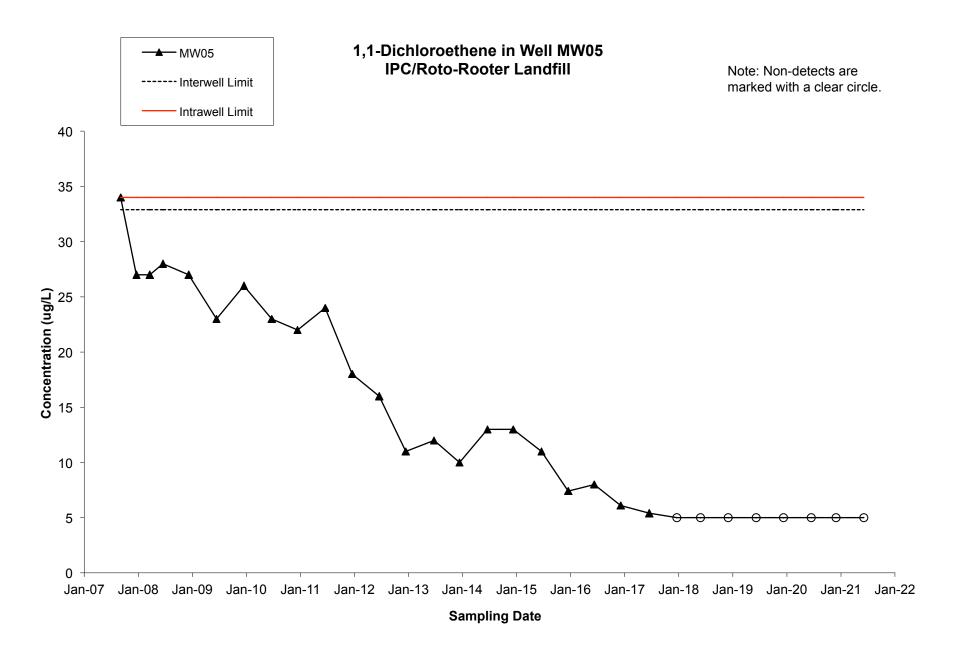


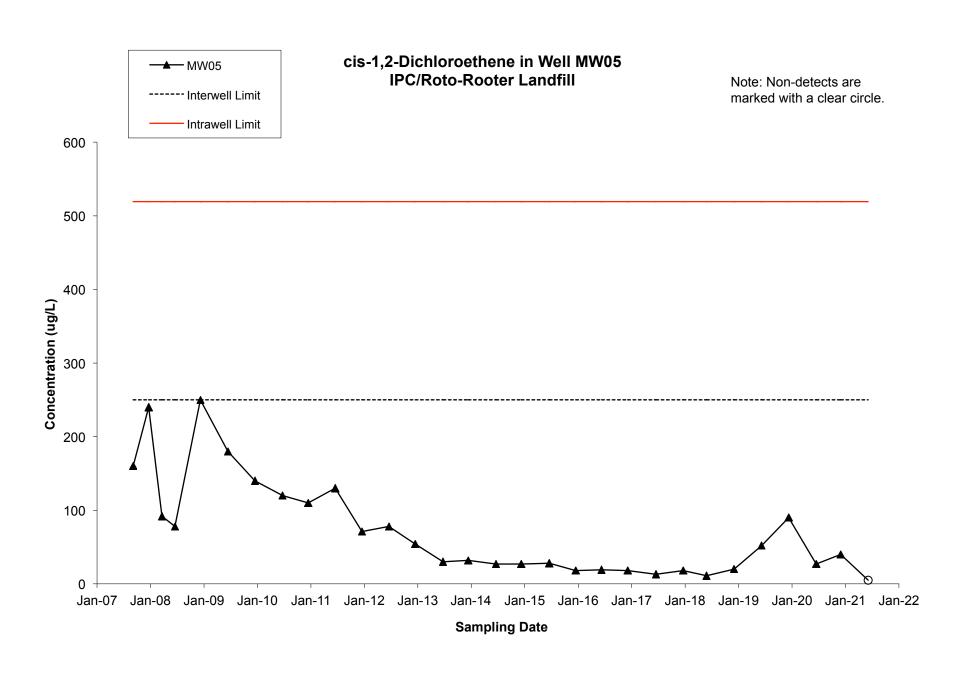


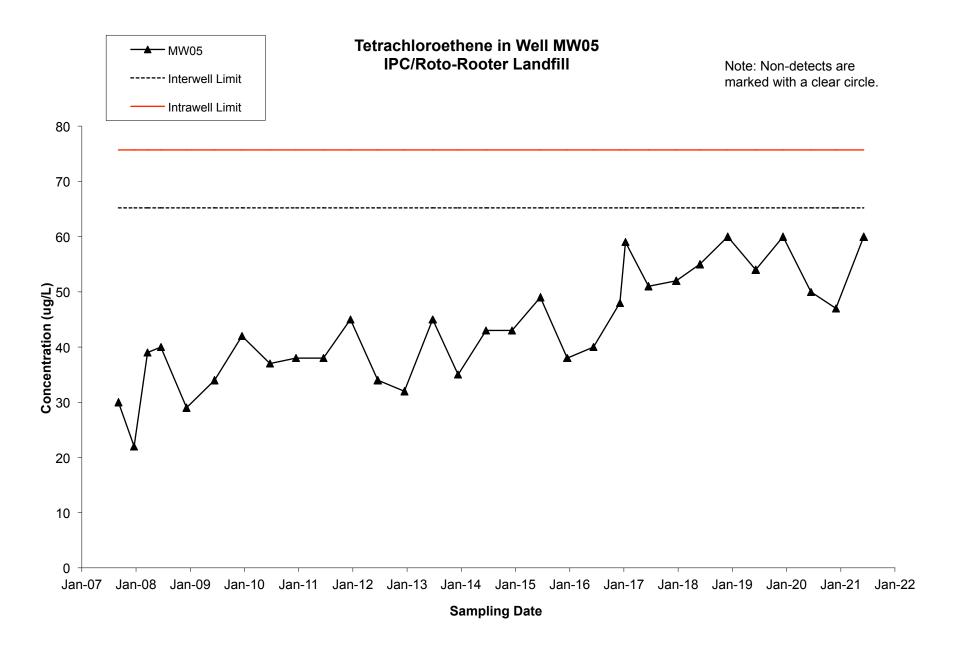


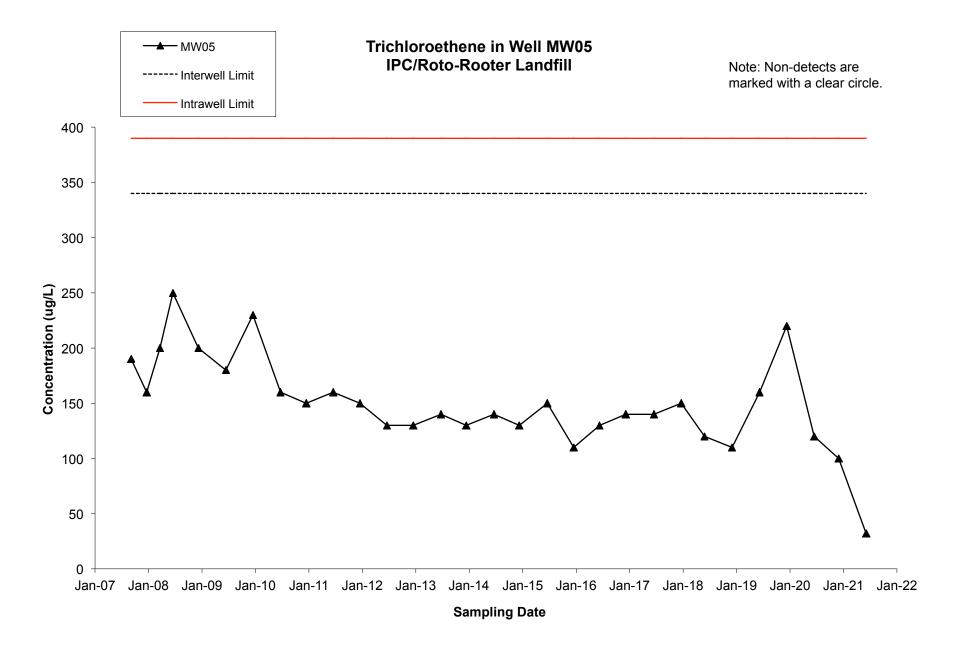


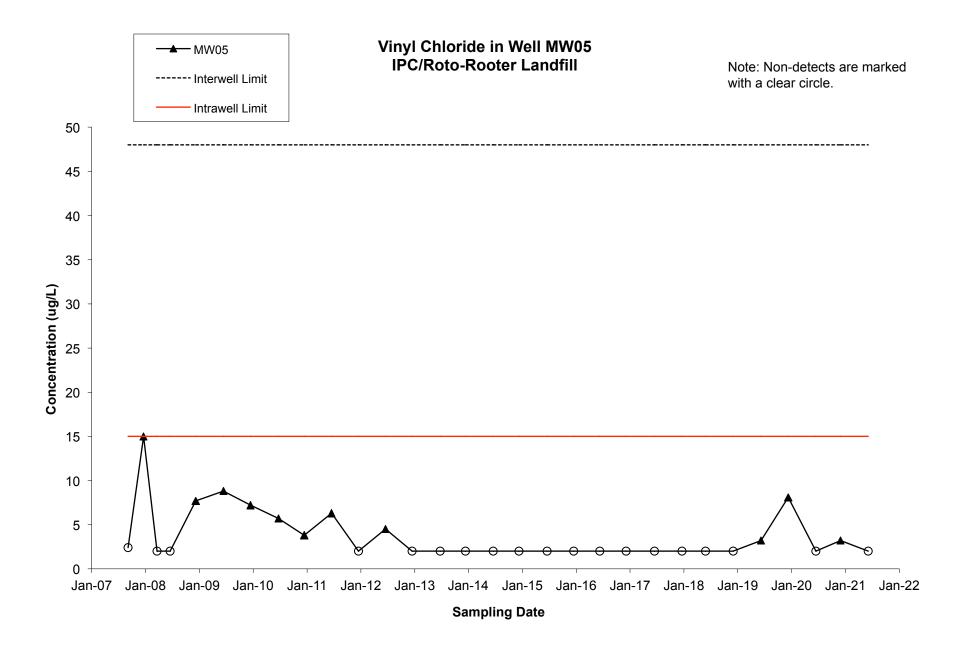


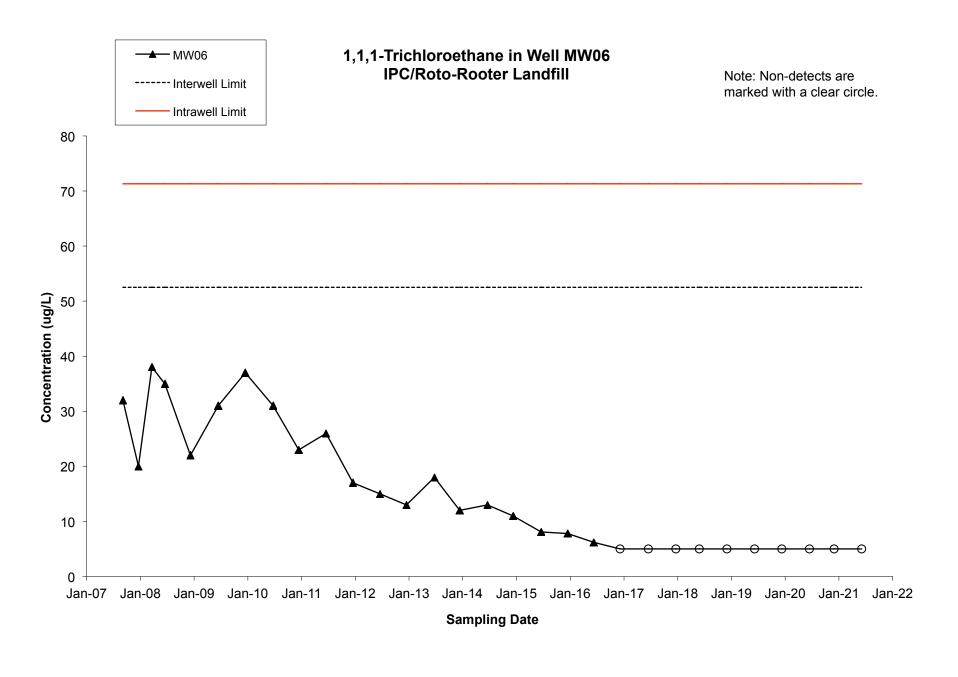


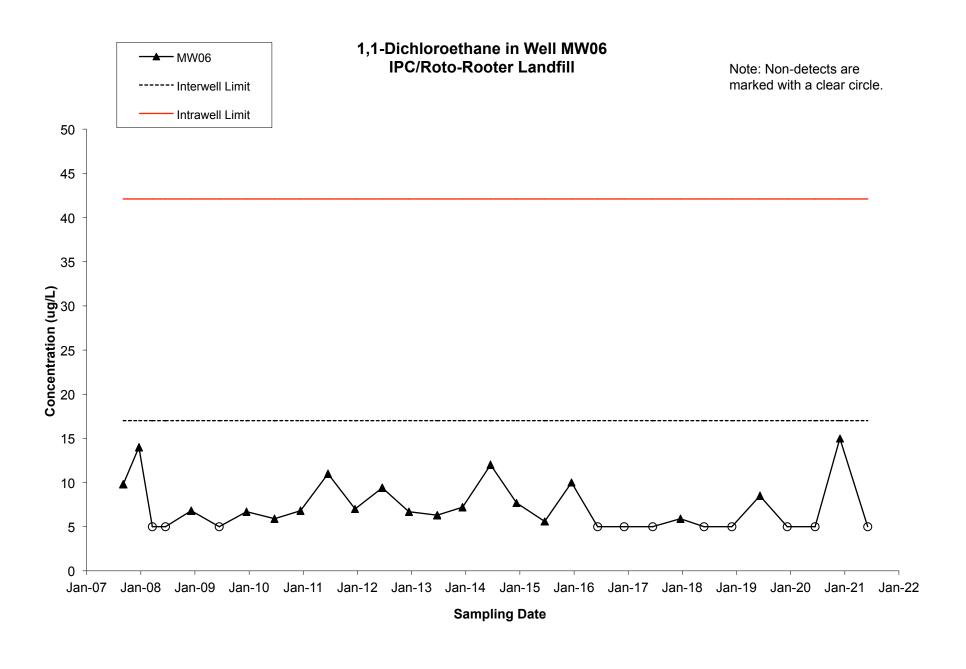


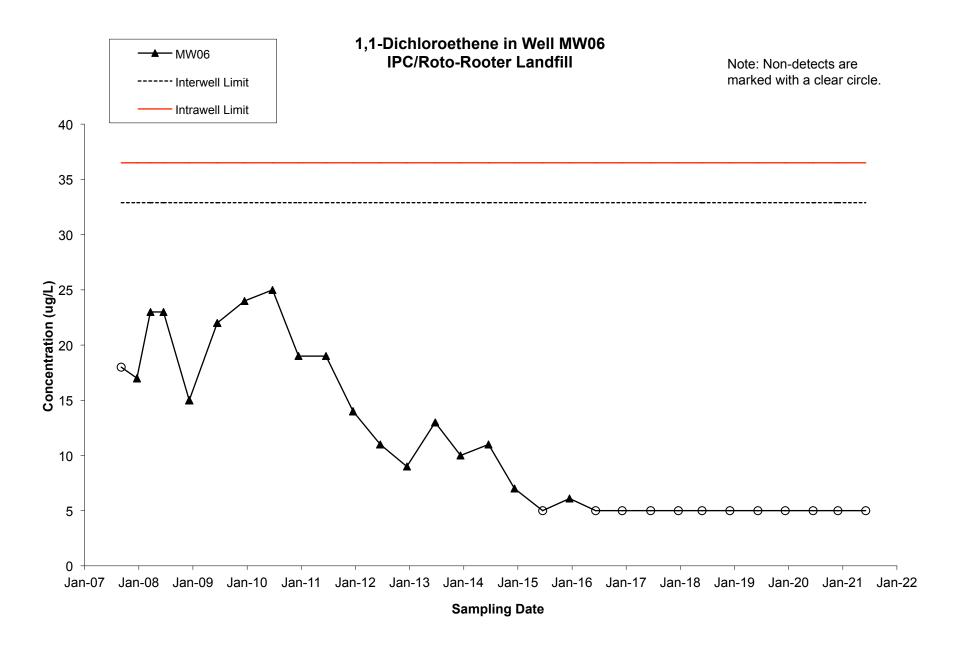


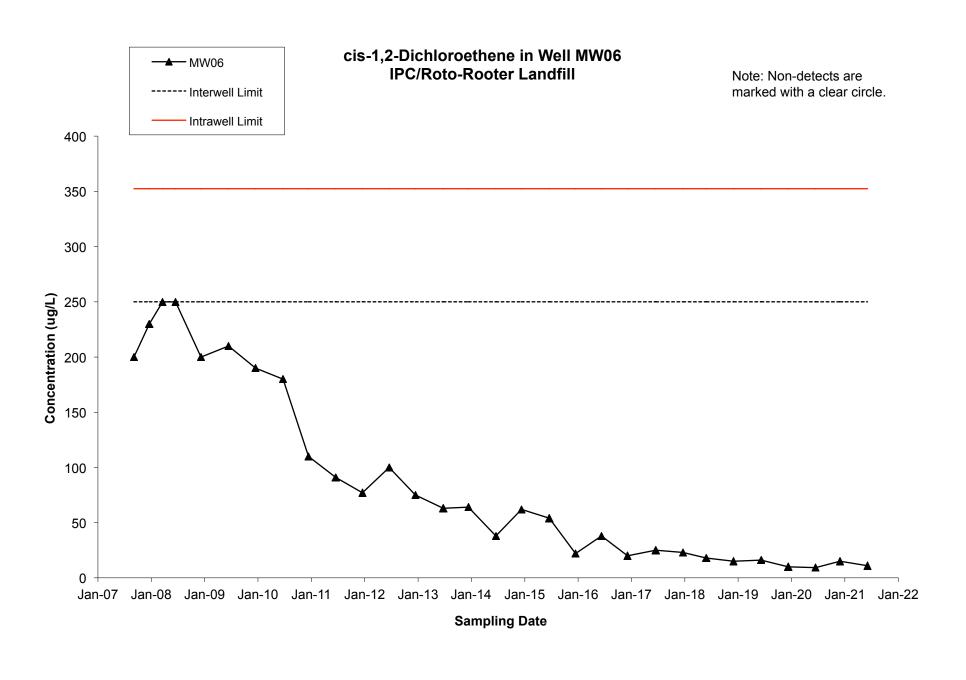


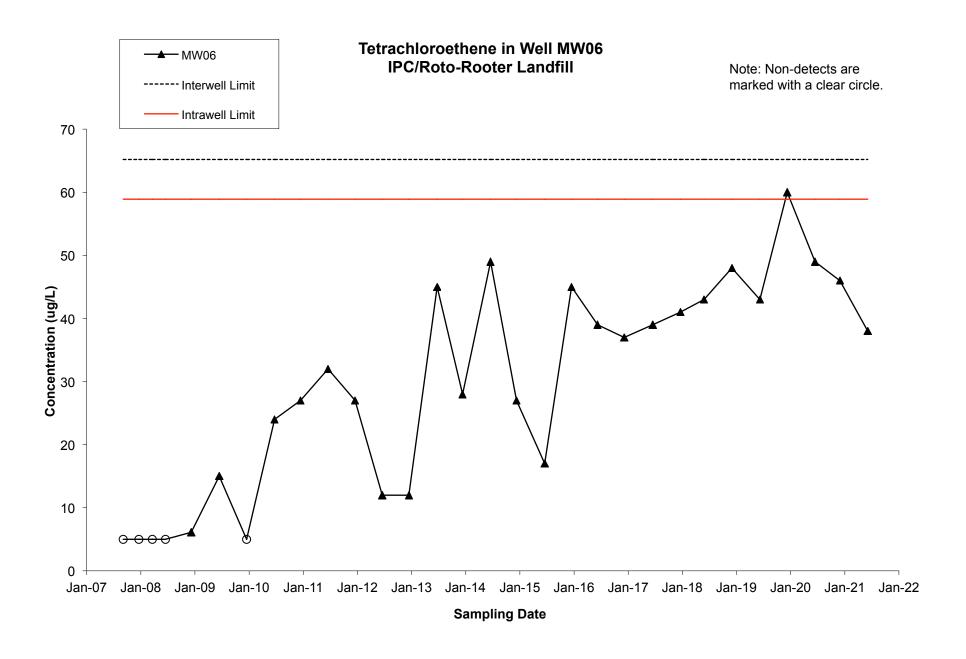


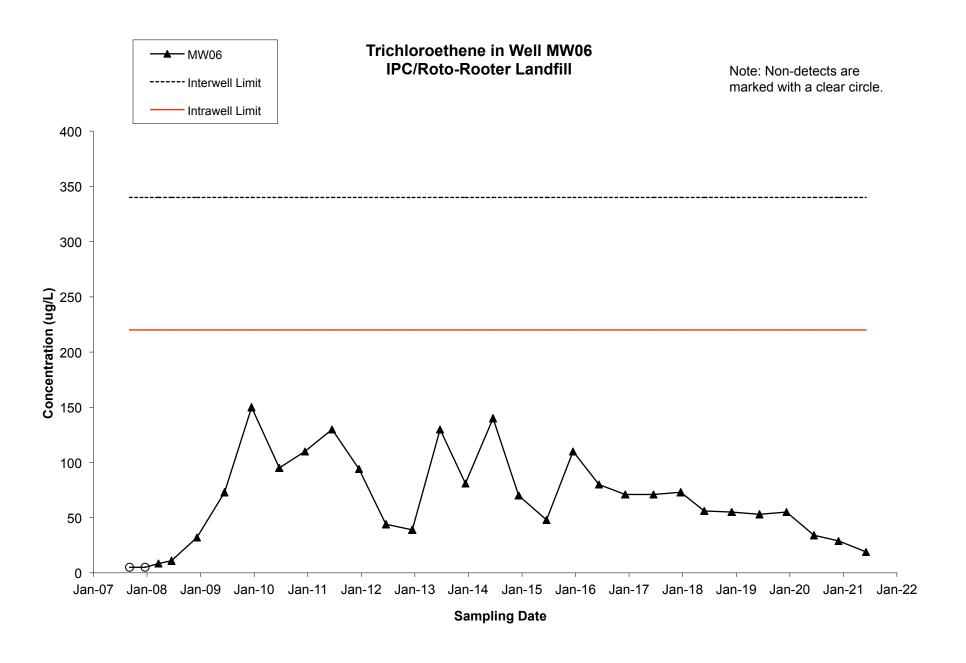


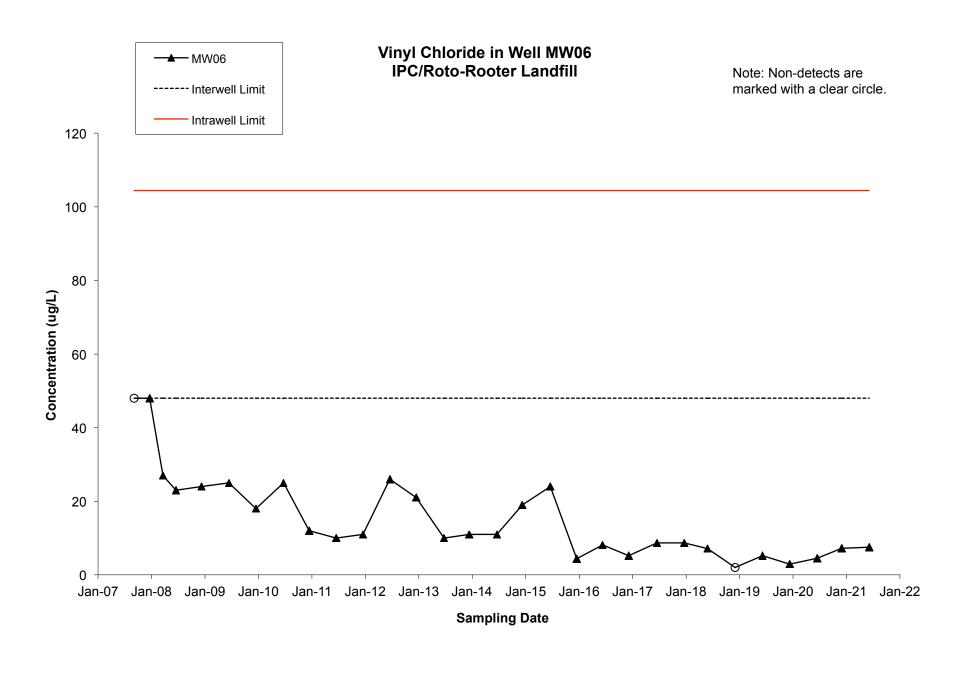


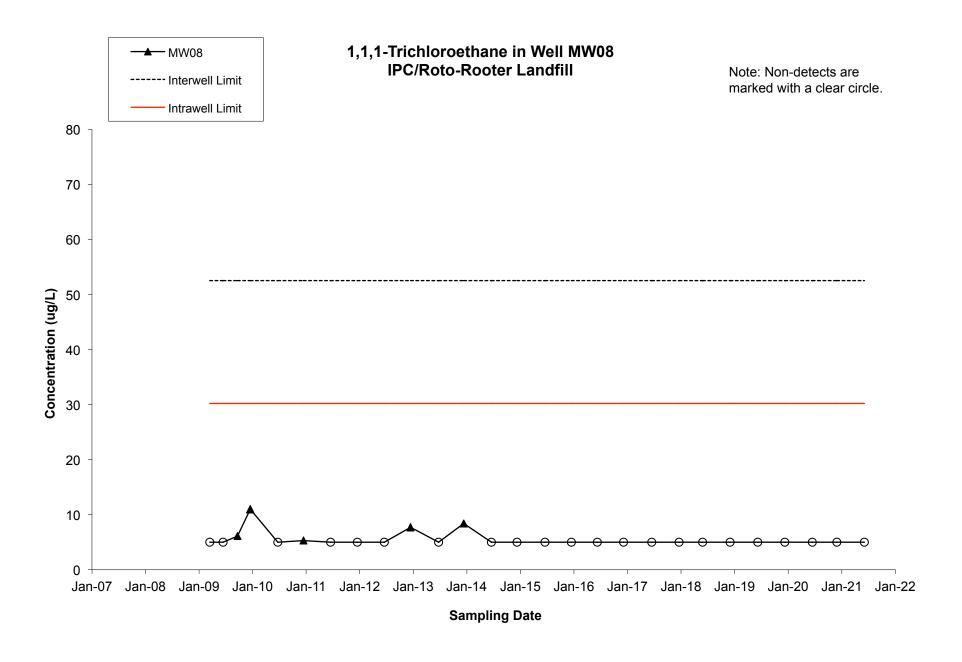


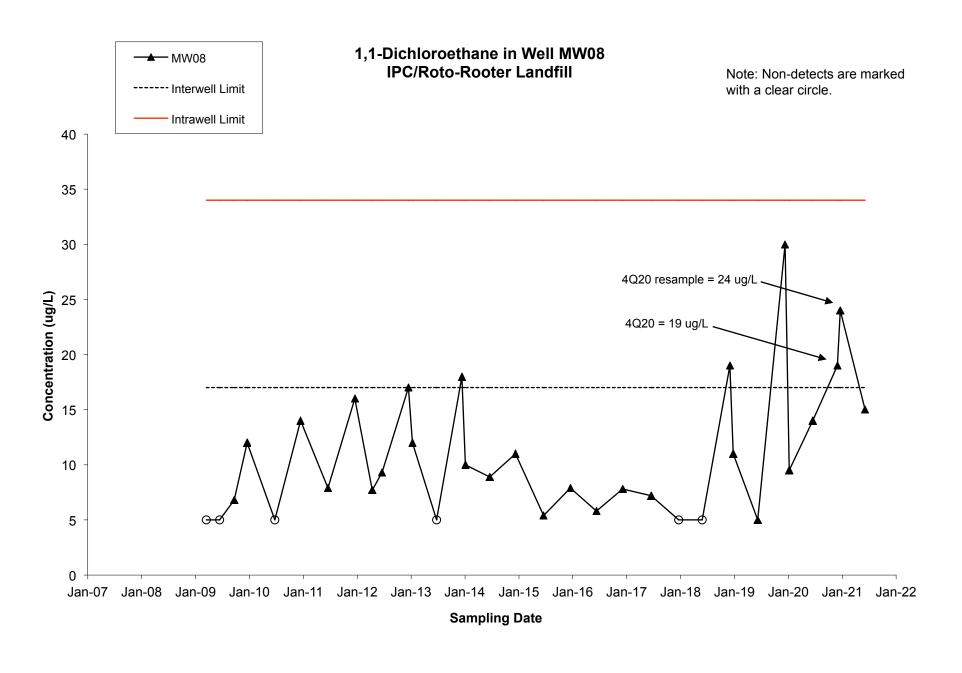


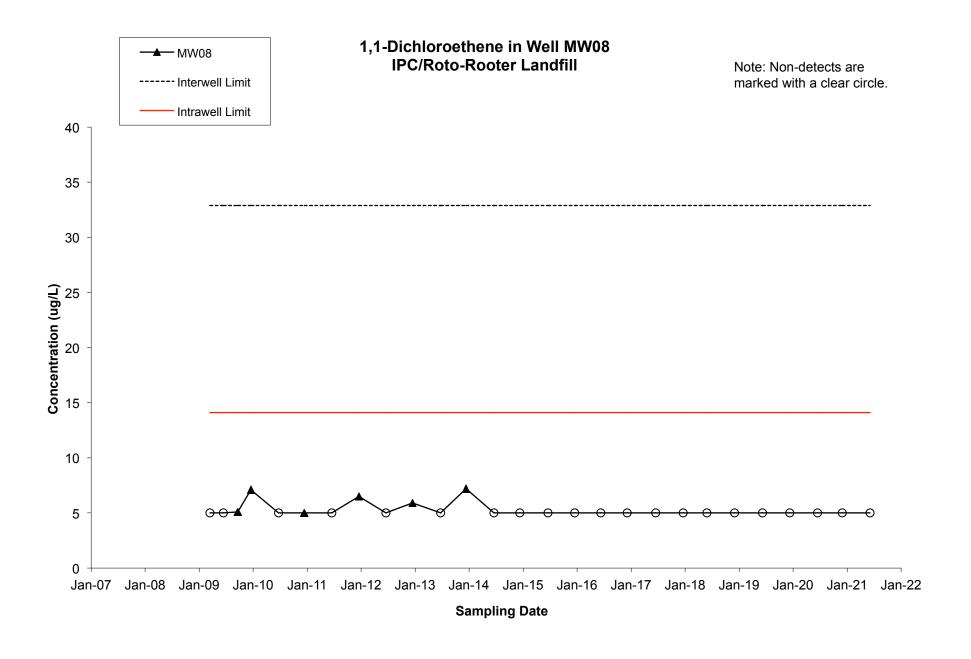


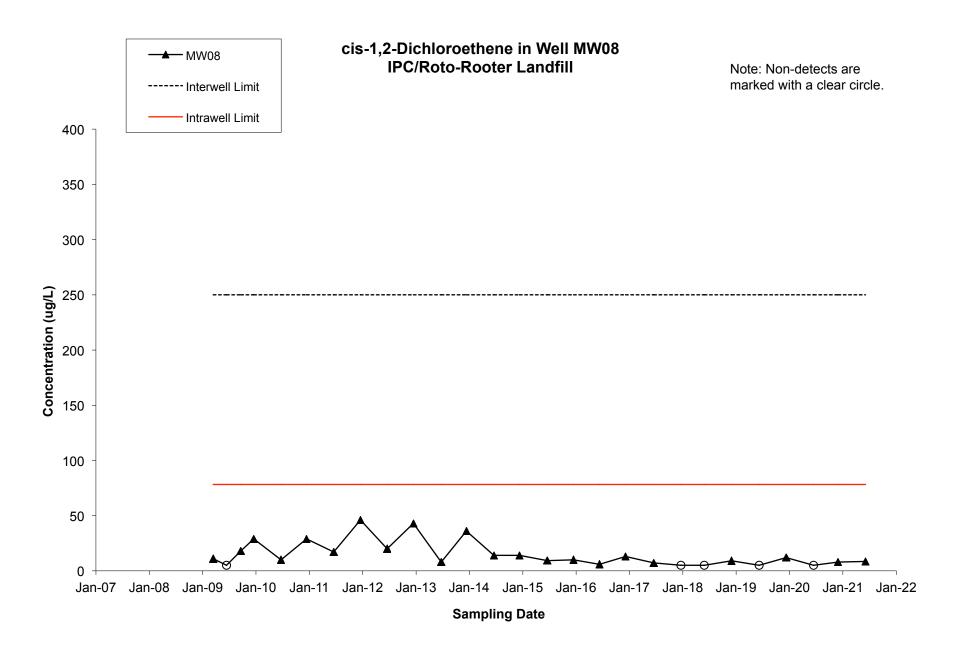


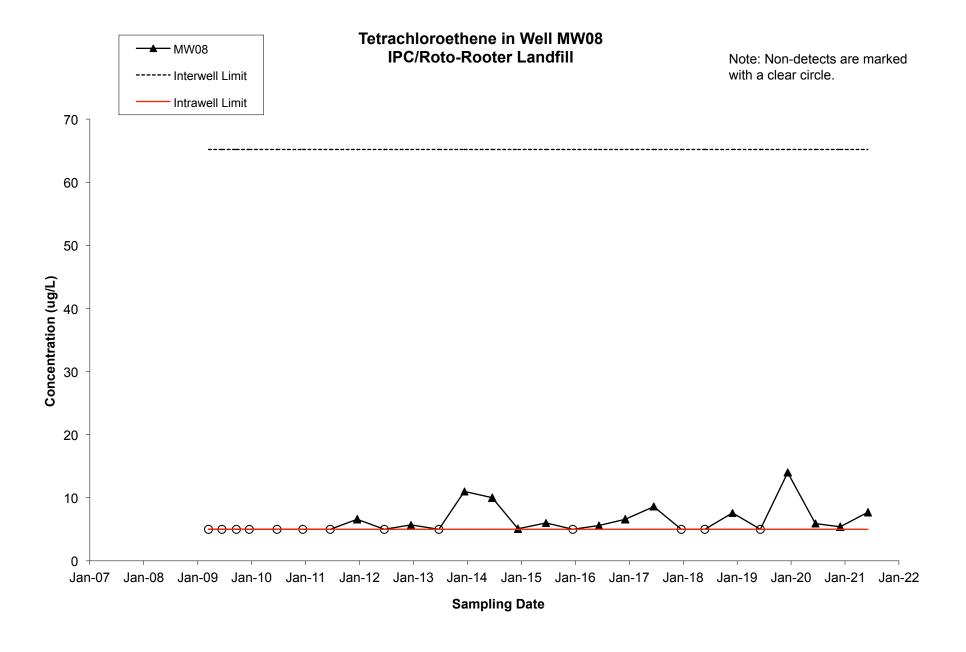


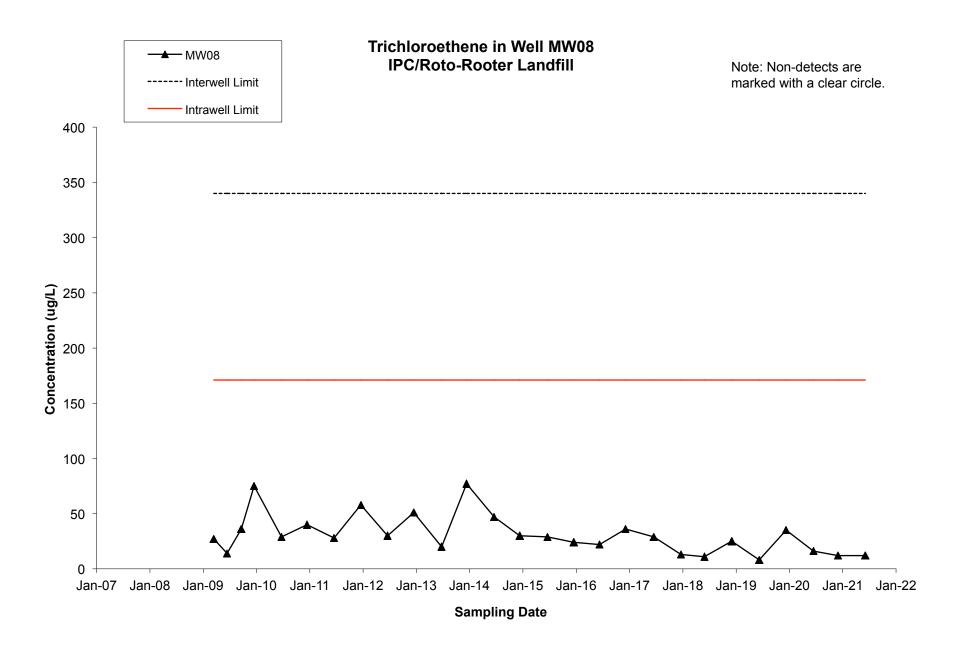


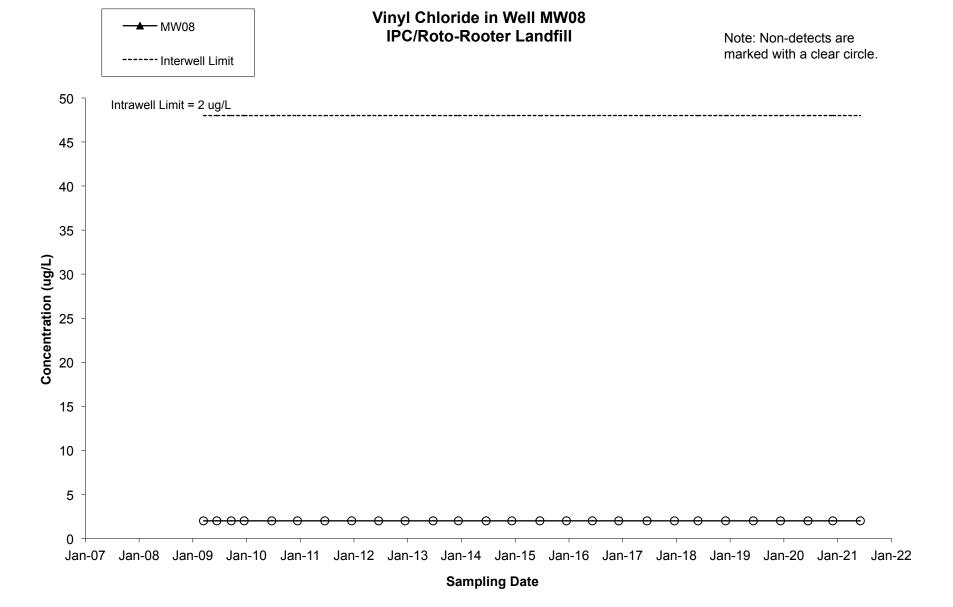






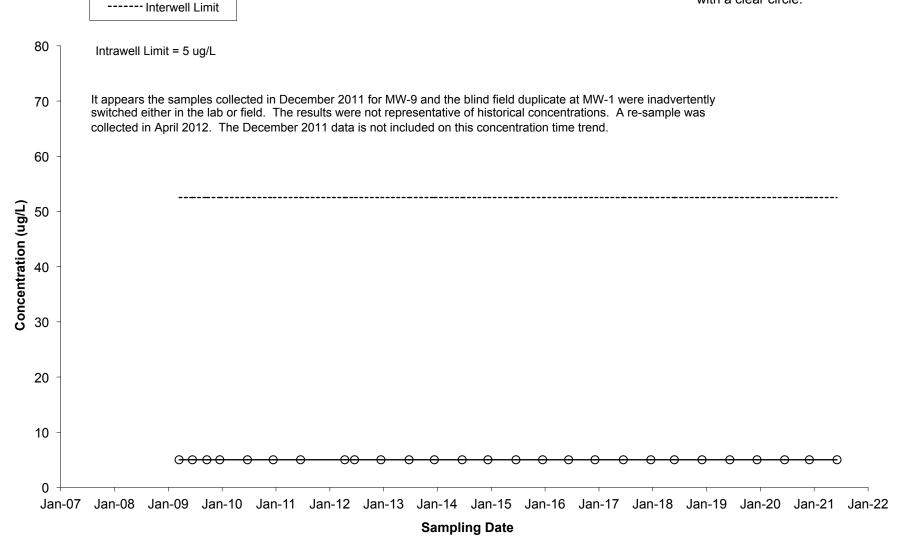






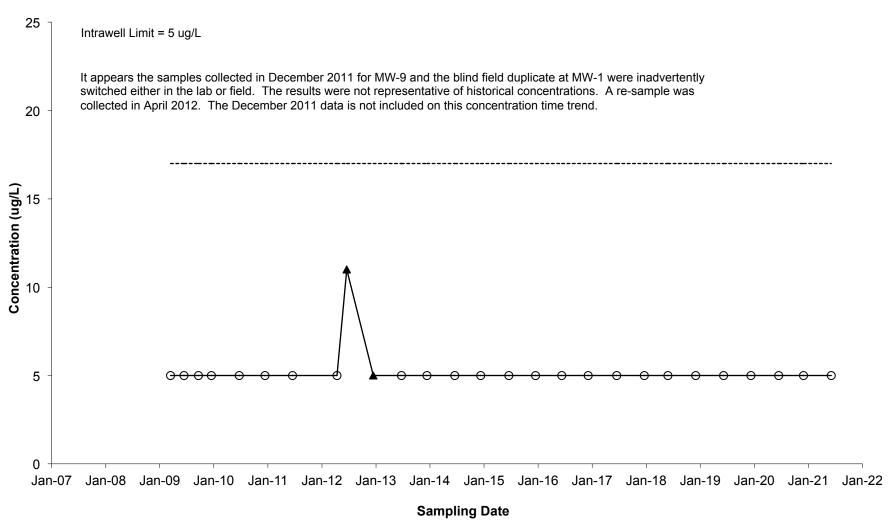


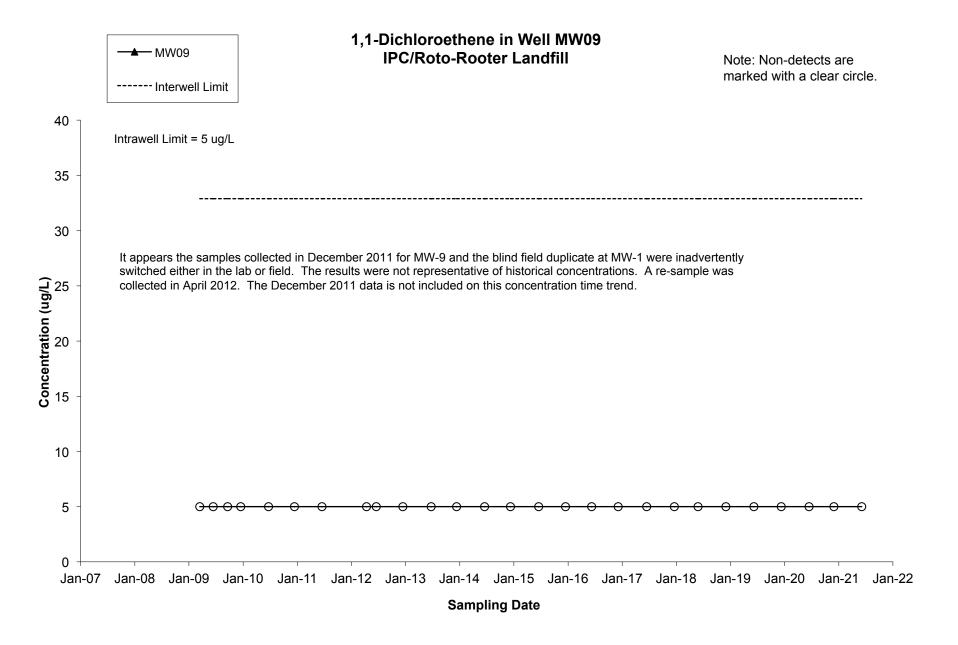
—<u></u> MW09

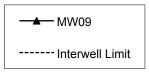




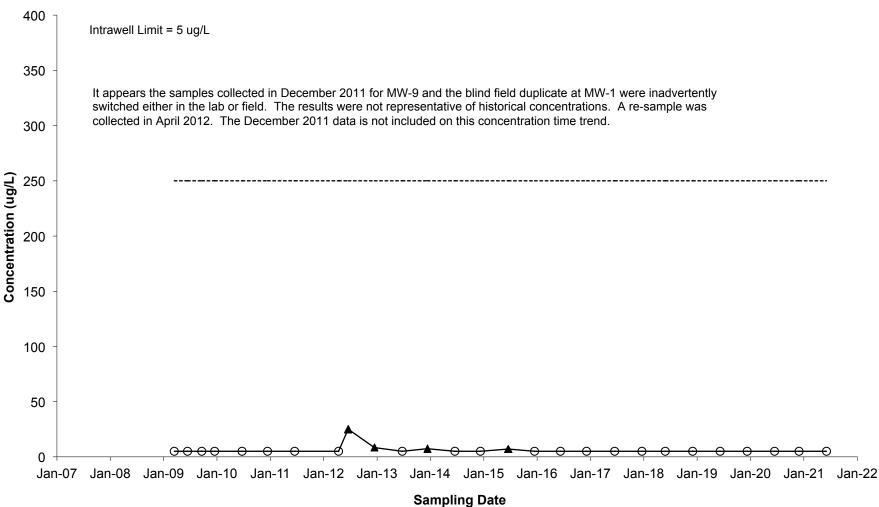
1,1-Dichloroethane in Well MW09 IPC/Roto-Rooter Landfill

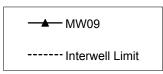




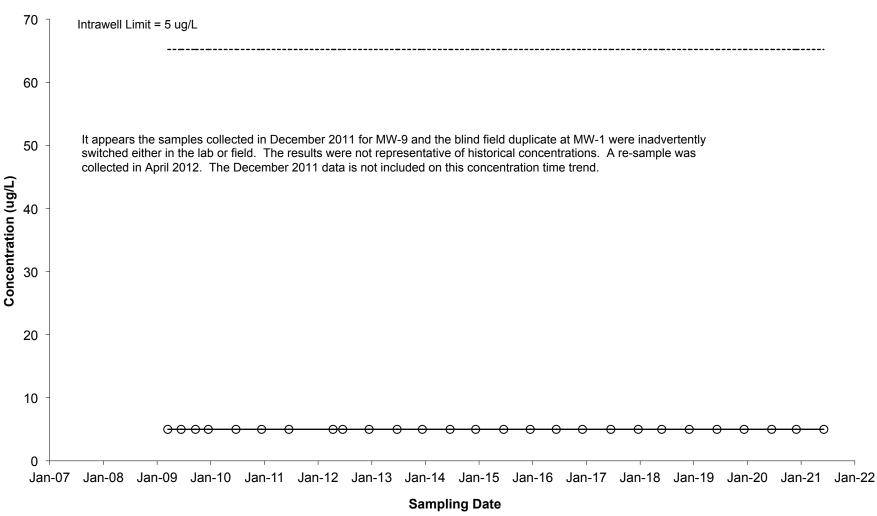


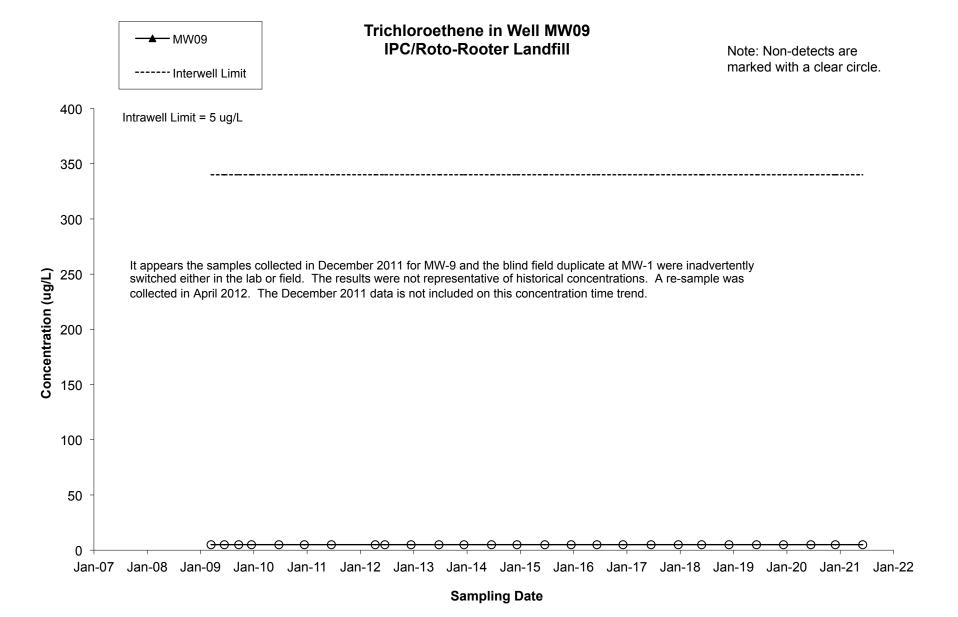
cis-1,2-Dichloroethene in Well MW09 IPC/Roto-Rooter Landfill

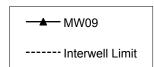




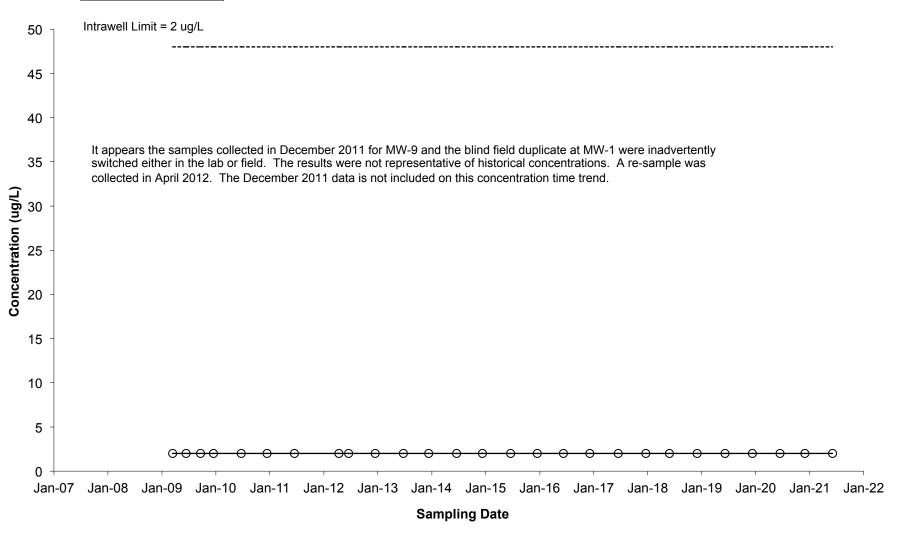
Tetrachloroethene in Well MW09 IPC/Roto-Rooter Landfill







Vinyl Chloride in Well MW09 IPC/Roto-Rooter Landfill



Attachment 3

Data Validation Summaries

Data Validation Checklist

Date:	January 6, 2021						
Validator Name:	Mary Pearson (EIL)						
Facility:	Interstate Pollution Control - F	Roto Rooter					
Facility Location:	Rockford, Illinois						
Event:	December 2020						
Laboratory:	TestAmerica - Chicago						
Sampling Dates:	12/9/2020						
Laboratory Job No:	500-192266-1						
Laboratory Analysis Batch Nos:	577144, 577522, 577715						
Were the correct analytical metho	odologies used?		Yes ■	No	NA		
Were all samples analyzed within	the VOC hold time (14 days)?		Yes	No	NA		
Were contaminants detected in the	ne associated laboratory blank(s	s)?	Yes	No	NA		
Were contaminants detected in the	ne associated trip blank(s)?		Yes	No	NA		
Were contaminants detected in the	ne associated field blank(s)?		Yes	No	NA		
Were surrogate recoveries within	the appropriate control ranges?	?	Yes	No	NA		
Were laboratory control spikes (L	CS) within the appropriate conti	rol ranges?	Yes	No (see note)	NA		
Note: The following compound ha	d a LCS recovery above the co	ontrol limits indicating high l	bias (Batch	#577522):			
Parameter Chloroethane	LCS Recovery (%) 139	Control Limits (%) 48 - 136					
One sample was analyzed in Bato	ch #577522: MW6. Chloroethan	ne was not detected at MW	6.				
Were field duplicate samples with of the primary samples for all test	Yes	No	NA				
- Blind field duplicate (MW7) was collected at MW1.							

Note: Matrix Spike (MS) / Matrix Spike Duplicate (MSD) was analyzed at well MW8. All MS/MSD and associated RPD recoveries were within acceptance limits.

Duplicate Sample Evaluation December 2020 IPC Roto-Rooter Site

					Blind Field		
Parameter	Sample Date	Units	MW1	Qualifier	Duplicate	Qualifier	RPD
1,1,1-Trichloroethane	12/9/2020	ug/L	5	U	5	U	0%
1,1,2,2-Tetrachloroethane	12/9/2020	ug/L	5	U	5	U	0%
1,1,2-Trichloroethane	12/9/2020	ug/L	5	U	5	U	0%
1,1-Dichloroethane	12/9/2020	ug/L	5	U	5	U	0%
1,1-Dichloroethene	12/9/2020	ug/L	5	U	5	U	0%
1,2-Dichloroethane	12/9/2020	ug/L	5	U	5	U	0%
1,2-Dichloropropane	12/9/2020	ug/L	5	U	5	U	0%
2-Hexanone	12/9/2020	ug/L	20	U	20	U	0%
Acetone	12/9/2020	ug/L	20	U	20	U	0%
Benzene	12/9/2020	ug/L	5	U	5	U	0%
Bromodichloromethane	12/9/2020	ug/L	5	U	5	U	0%
Bromoform	12/9/2020	ug/L	5	U	5	U	0%
Bromomethane	12/9/2020	ug/L	5	U	5	U	0%
Carbon disulfide	12/9/2020	ug/L	5	U	5	U	0%
Carbon tetrachloride	12/9/2020	ug/L	5	U	5	U	0%
Chlorobenzene	12/9/2020	ug/L	5	U	5	U	0%
Chloroethane	12/9/2020	ug/L	5	U	5	U	0%
Chloroform	12/9/2020	ug/L	5	U	5	U	0%
Chloromethane	12/9/2020	ug/L	5	U	5	U	0%
cis-1,2-Dichloroethene	12/9/2020	ug/L	34		36		6%
cis-1,3-Dichloropropene	12/9/2020	ug/L	5	U	5	U	0%
Dibromochloromethane	12/9/2020	ug/L	5	U	5	U	0%
Ethylbenzene	12/9/2020	ug/L	5	U	5	U	0%
Methyl Ethyl Ketone	12/9/2020	ug/L	20	U	20	U	0%
Methyl Isobutyl Ketone	12/9/2020	ug/L	20	U	20	U	0%
Methylene Chloride	12/9/2020	ug/L	10	U	10	U	0%
Styrene	12/9/2020	ug/L	5	U	5	U	0%
Tetrachloroethene	12/9/2020	ug/L	5	U	5	U	0%
Toluene	12/9/2020	ug/L	5	U	5	U	0%
trans-1,2-Dichloroethene	12/9/2020	ug/L	5	U	5	U	0%
trans-1,3-Dichloropropene	12/9/2020	ug/L	5	U	5	U	0%
Trichloroethene	12/9/2020	ug/L	5.5		5.7		4%
Vinyl chloride	12/9/2020	ug/L	9.9		10		1%
Xylenes, Total	12/9/2020	ug/L	5	U	5	U	0%

Qualifier U - Not Detected

Chemicals of Concern are highlighted in gray.

The blind field duplicate (MW7) was taken at well MW1.

Data Validation Checklist

Date:	January 6, 2021			
Validator Name:	Mary Pearson (EIL)			
Facility:	Interstate Pollution Control - Roto Rooter			
Facility Location:	Rockford, Illinois			
Event:	December 2020 Resample			
Laboratory:	TestAmerica - Chicago			
Sampling Dates:	12/28/2020			
Laboratory Job No:	500-193056-1			
Laboratory Analysis Batch Nos:	579756			
Were the correct analytical method	odologies used?	Yes ■	No	NA
Were all samples analyzed within	the VOC hold time (14 days)?	Yes ■	No	NA
Were contaminants detected in the	ne associated laboratory blank(s)?	Yes	No	NA
Were contaminants detected in the	ne associated trip blank(s)?	Yes	No	NA
Were contaminants detected in the associated field blank(s)?		Yes	No	NA
Were surrogate recoveries within the appropriate control ranges?		Yes ■	No	NA
Were laboratory control spikes (L	.CS) within the appropriate control ranges?	Yes ■	No	NA
Were field duplicate samples with	Yes	No	NA	

Duplicate Sample Evaluation December 2020 Resample Event IPC Roto-Rooter Site

					Field		
Parameter	Sample Date	Units	MW8	Qualifier	Duplicate	Qualifier	RPD
1,1-Dichloroethane	12/28/2020	ug/L	24		27		12%

Data Validation Checklist

Date:	July 12, 2021			
Validator Name:	Mary Pearson (EIL)			
Facility:	Interstate Pollution Control - Roto Rooter			
Facility Location:	Rockford, Illinois			
Event:	June 2021			
Laboratory:	Eurofins TestAmerica - Chicago			
Sampling Dates:	6/15/2021			
Laboratory Job No:	500-200915-1			
Laboratory Analysis Batch Nos:	606438			
Were the correct analytical method	dologies used?	Yes	No	NA
Were all samples analyzed within t	the VOC hold time (14 days)?	Yes	No	NA
Were contaminants detected in the associated laboratory blank(s)?		Yes	No	NA
Were contaminants detected in the associated trip blank(s)?		Yes	No	NA
Were contaminants detected in the associated field blank(s)?		Yes	No	NA
Were surrogate recoveries within the appropriate control ranges?		Yes	No	NA
Were laboratory control spikes (LCS) within the appropriate control ranges?		Yes	No	NA
Were field duplicate samples within of the primary samples for all teste	Yes	No	NA	

- Blind field duplicate (MW7) was collected at MW1.

Note: Matrix Spike (MS) / Matrix Spike Duplicate (MSD) was analyzed at well MW6. All MS/MSD and associated RPD recoveries were within acceptance limits, except vinyl chloride which was recovered above the control limits:

Vinyl Chloride: MS Recovery = 140% (control limits 64 - 126%) Vinyl Chloride: MSD Recovery = 137% (control limits 64 - 126%)

The associated LCS Recovery was acceptable at 126% (control limits = 64 - 126%), but the recovery is on the higher side.

Vinyl chloride was detected in the MW6 native sample at 7.5 ug/L. The MS/MSD recoveries above control limits indicate the native sample result of 7.5 ug/L may be biased high.

Duplicate Sample Evaluation June 2021 IPC Roto-Rooter Site

					Blind Field		
Parameter	Sample Date	Units	MW1	Qualifier	Duplicate	Qualifier	RPD
1,1,1-Trichloroethane	6/15/2021	ug/L	5	U	5	U	0%
1,1,2,2-Tetrachloroethane	6/15/2021	ug/L	5	U	5	U	0%
1,1,2-Trichloroethane	6/15/2021	ug/L	5	U	5	U	0%
1,1-Dichloroethane	6/15/2021	ug/L	5	U	5	U	0%
1,1-Dichloroethene	6/15/2021	ug/L	5	U	5	U	0%
1,2-Dichloroethane	6/15/2021	ug/L	5	U	5	U	0%
1,2-Dichloropropane	6/15/2021	ug/L	5	U	5	U	0%
2-Hexanone	6/15/2021	ug/L	20	U	20	U	0%
Acetone	6/15/2021	ug/L	20	U	20	U	0%
Benzene	6/15/2021	ug/L	5	U	5	U	0%
Bromodichloromethane	6/15/2021	ug/L	5	U	5	U	0%
Bromoform	6/15/2021	ug/L	5	U	5	U	0%
Bromomethane	6/15/2021	ug/L	5	U	5	U	0%
Carbon disulfide	6/15/2021	ug/L	5	U	5	U	0%
Carbon tetrachloride	6/15/2021	ug/L	5	U	5	U	0%
Chlorobenzene	6/15/2021	ug/L	5	U	5	U	0%
Chloroethane	6/15/2021	ug/L	5	U	5	U	0%
Chloroform	6/15/2021	ug/L	5	U	5	U	0%
Chloromethane	6/15/2021	ug/L	5	U	5	U	0%
cis-1,2-Dichloroethene	6/15/2021	ug/L	41		42		2%
cis-1,3-Dichloropropene	6/15/2021	ug/L	5	U	5	U	0%
Dibromochloromethane	6/15/2021	ug/L	5	U	5	U	0%
Ethylbenzene	6/15/2021	ug/L	5	U	5	U	0%
Methyl Ethyl Ketone	6/15/2021	ug/L	20	U	20	U	0%
Methyl Isobutyl Ketone	6/15/2021	ug/L	20	U	20	U	0%
Methylene Chloride	6/15/2021	ug/L	10	U	10	U	0%
Styrene	6/15/2021	ug/L	5	U	5	U	0%
Tetrachloroethene	6/15/2021	ug/L	6.1		6.1		0%
Toluene	6/15/2021	ug/L	5	U	5	U	0%
trans-1,2-Dichloroethene	6/15/2021	ug/L	5	U	5	U	0%
trans-1,3-Dichloropropene	6/15/2021	ug/L	5	U	5	U	0%
Trichloroethene	6/15/2021	ug/L	8.3		9.3		11%
Vinyl chloride	6/15/2021	ug/L	8.1		8.6		6%
Xylenes, Total	6/15/2021	ug/L	5	U	5	U	0%

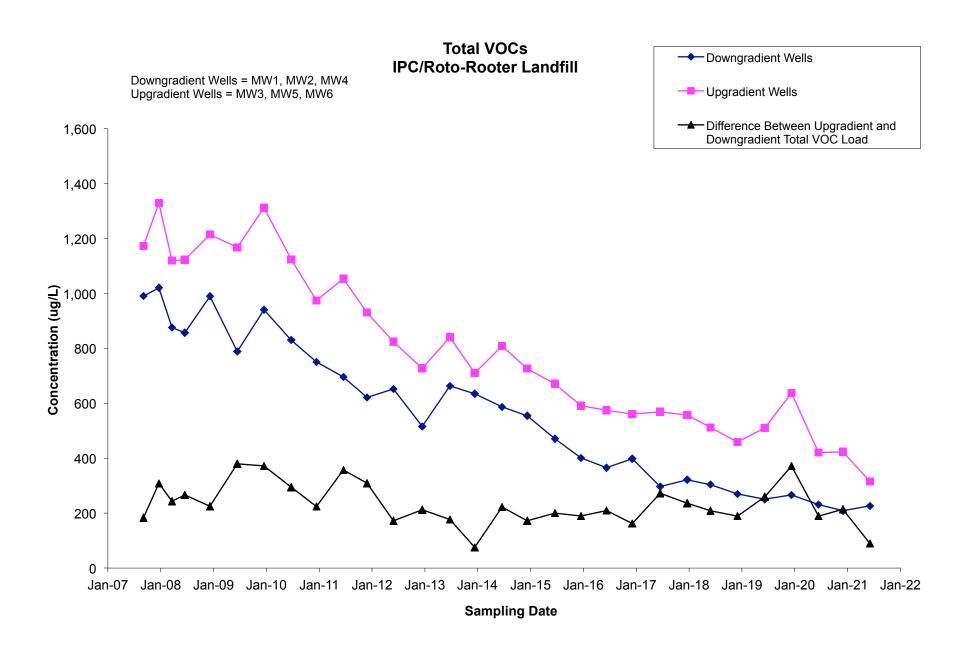
Qualifier U - Not Detected

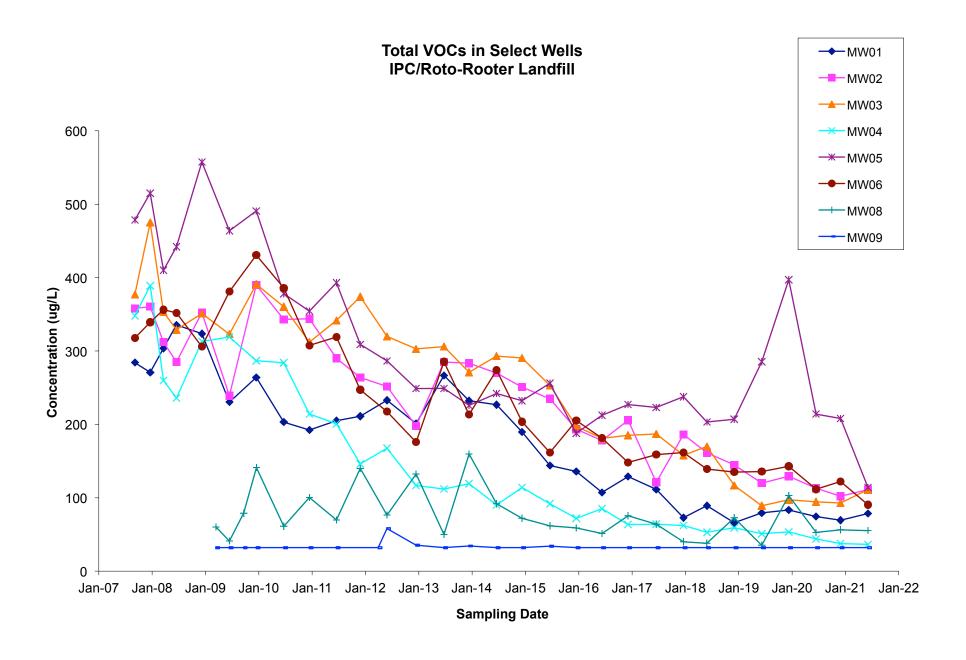
Chemicals of Concern are highlighted in gray.

The blind field duplicate (MW7) was taken at well MW1.

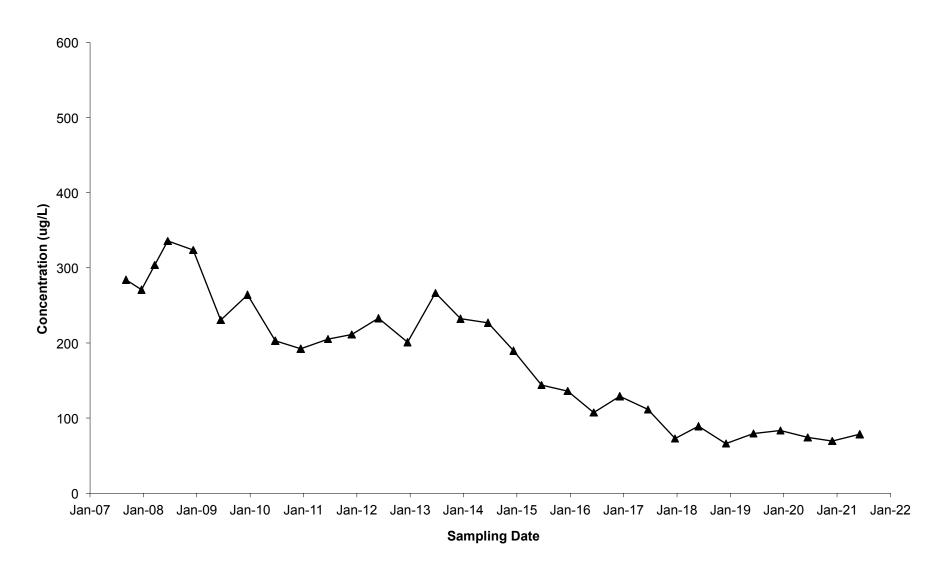
Attachment 4

Total VOC Load Concentration Time Trends

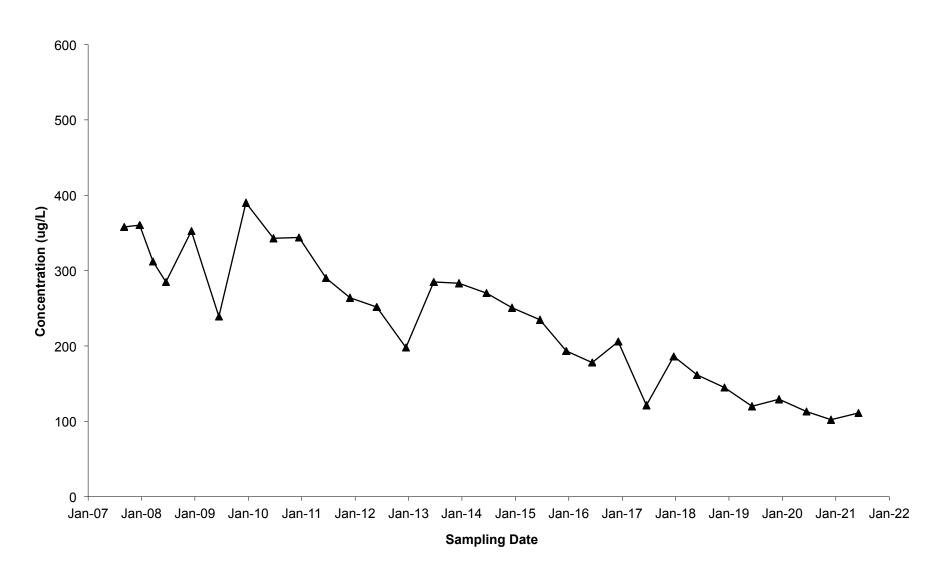




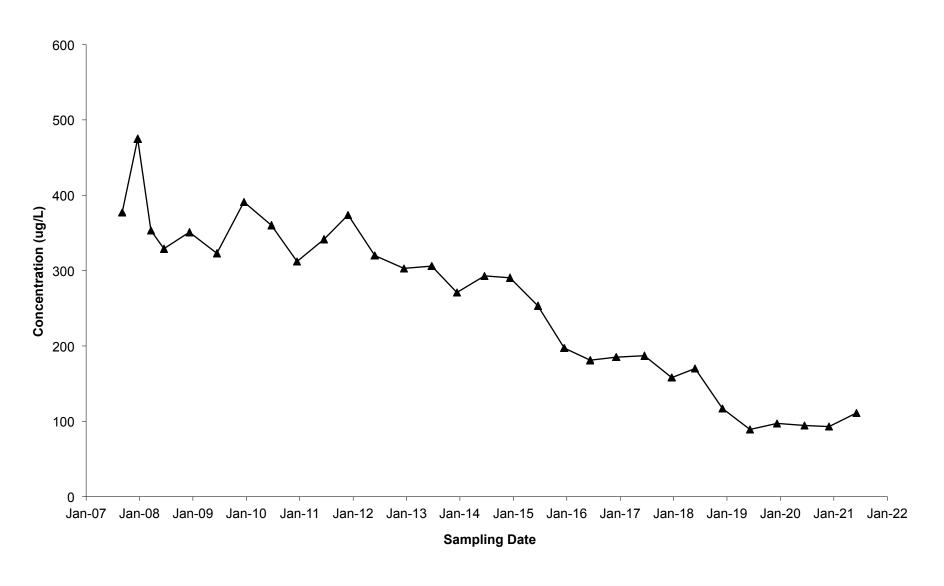
Total VOCs in Well MW01 IPC/Roto-Rooter Landfill



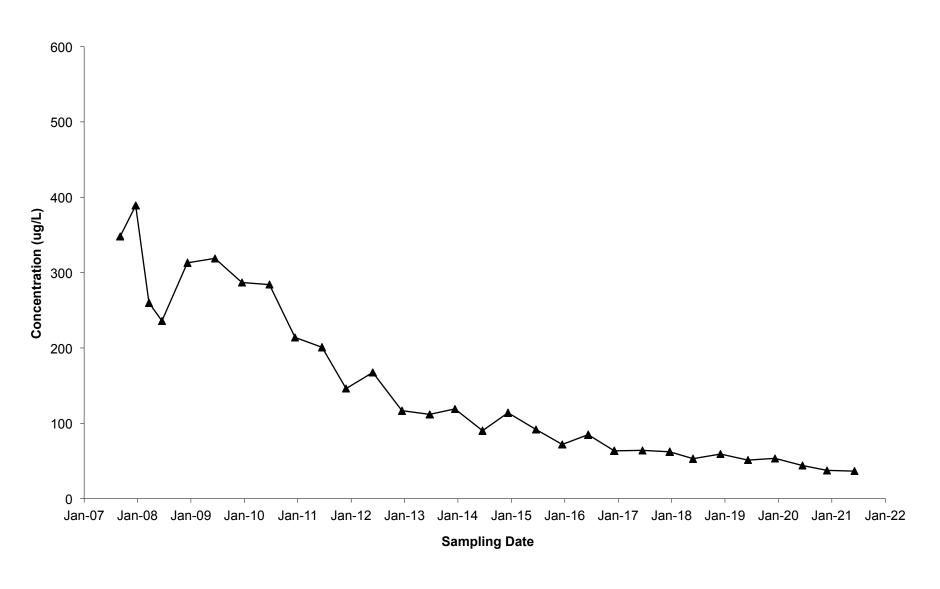
Total VOCs in Well MW02 IPC/Roto-Rooter Landfill



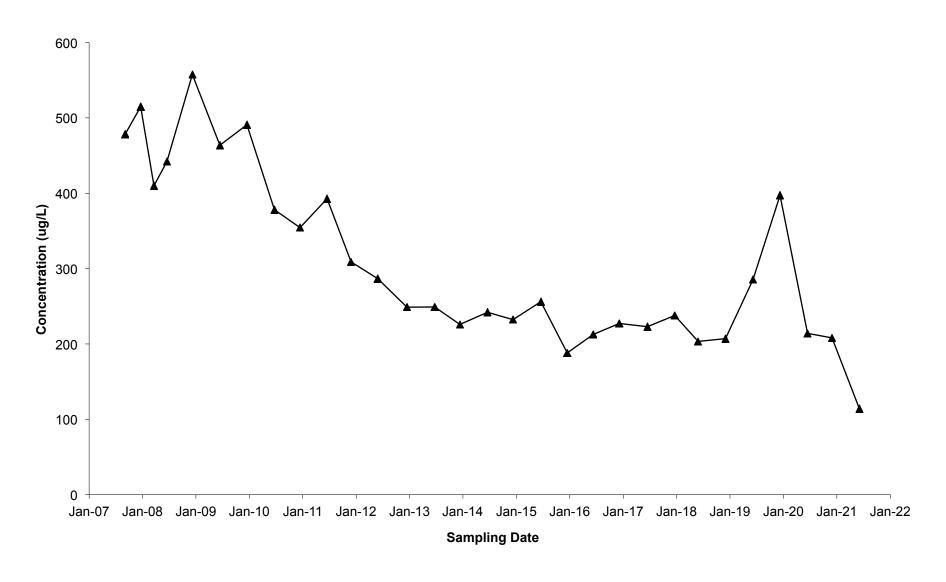
Total VOCs in Well MW03 IPC/Roto-Rooter Landfill



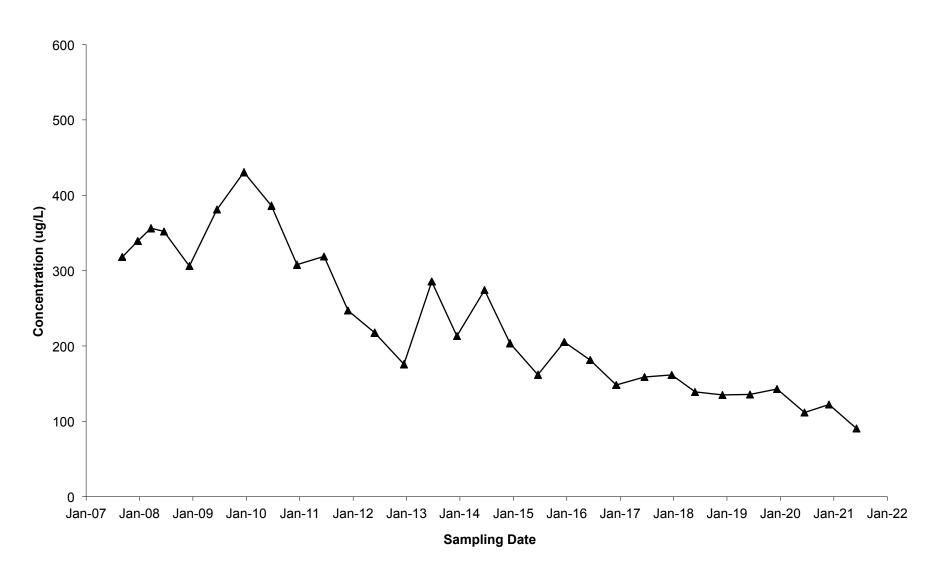
Total VOCs in Well MW04 IPC/Roto-Rooter Landfill



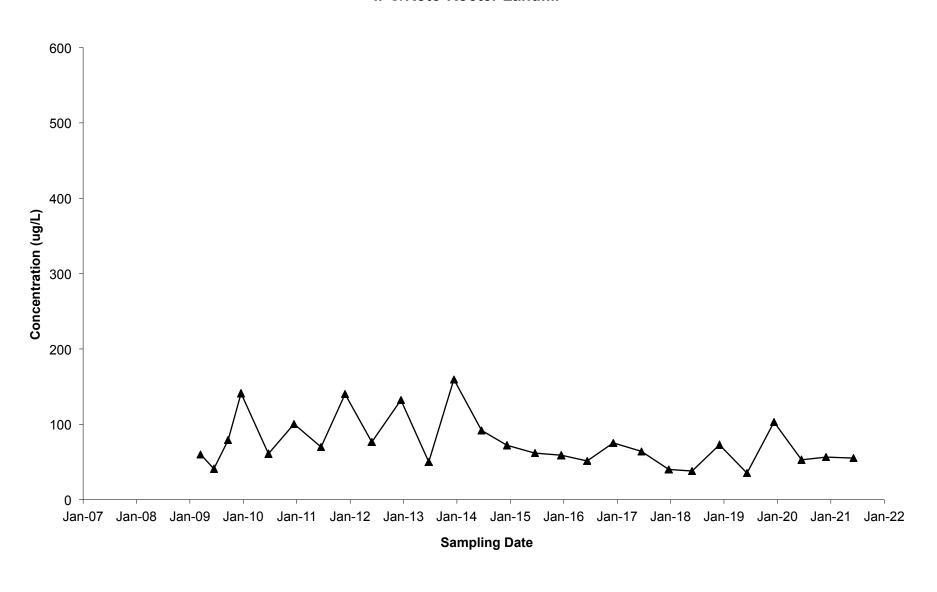
Total VOCs in Well MW05 IPC/Roto-Rooter Landfill



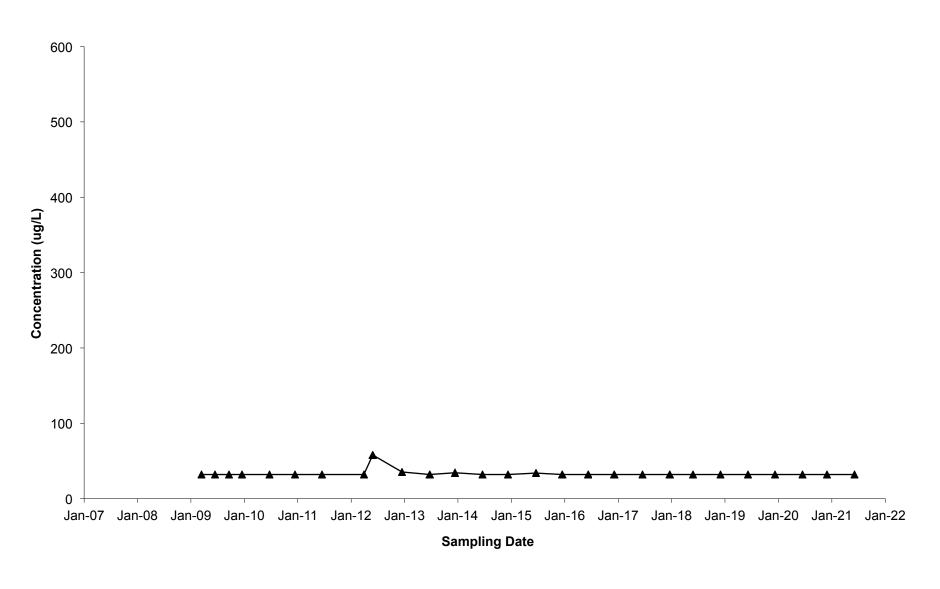
Total VOCs in Well MW06 IPC/Roto-Rooter Landfill



Total VOCs in Well MW08 IPC/Roto-Rooter Landfill



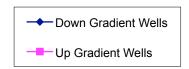
Total VOCs in Well MW09 IPC/Roto-Rooter Landfill

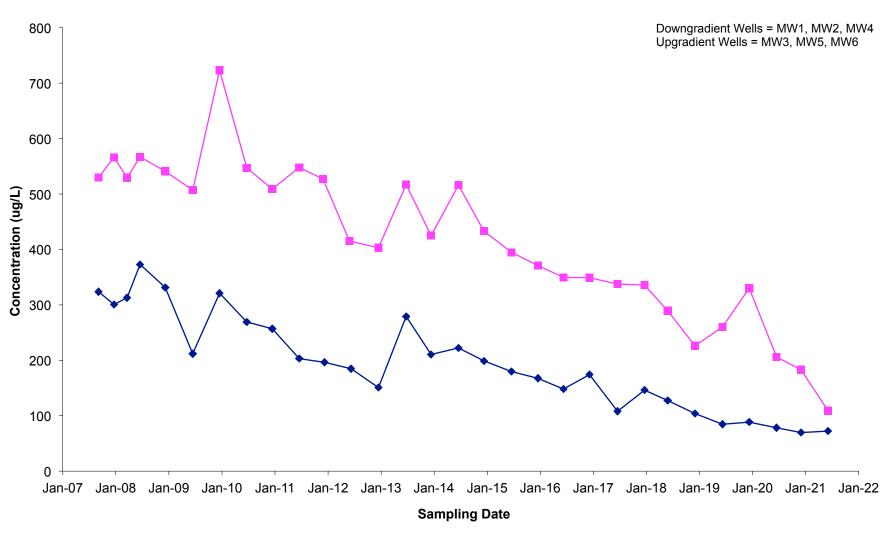


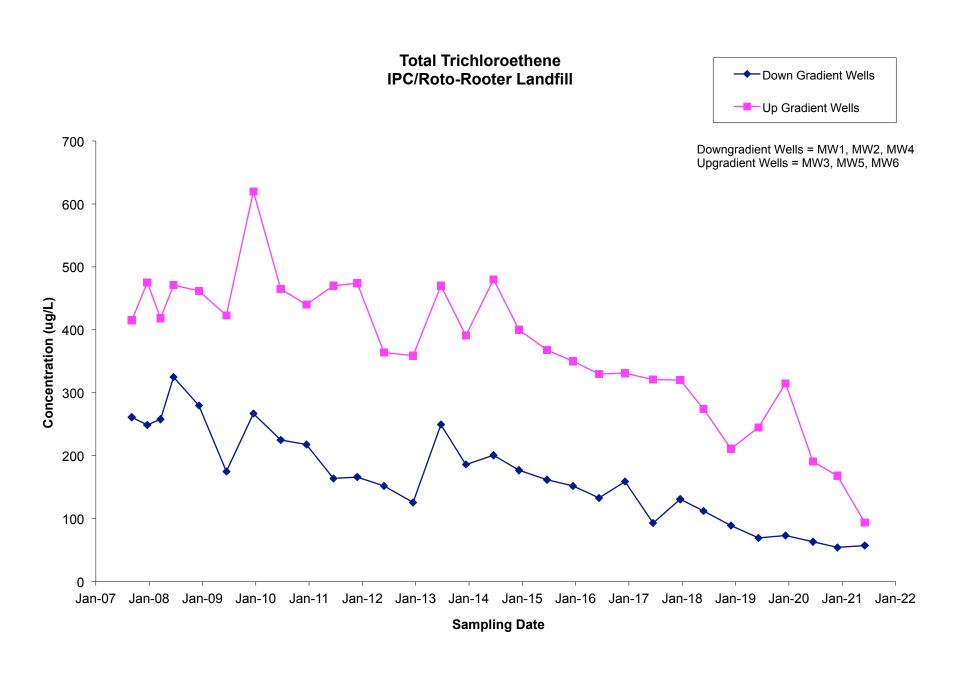
Attachment 5

Total VOC Load Trends (1,1,1-TCA plus TCE only)

Total Trichloroethene + 1,1,1-Trichloroethane IPC/Roto-Rooter Landfill

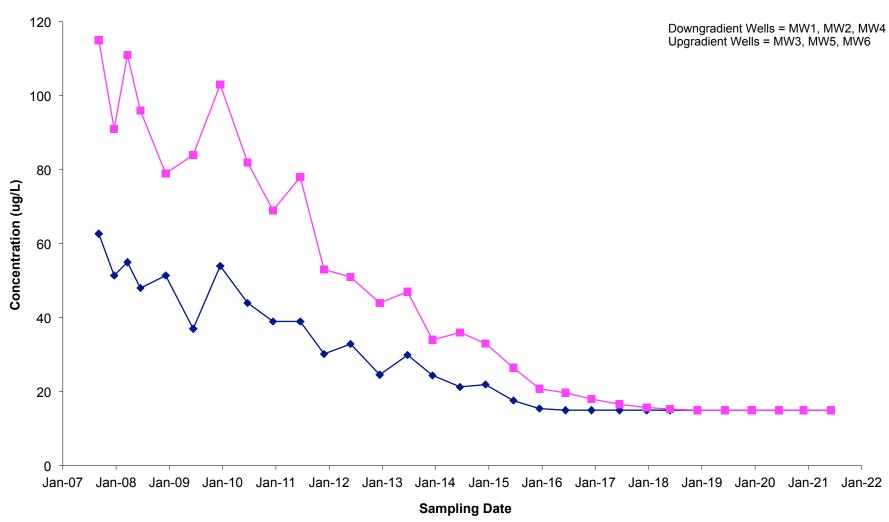






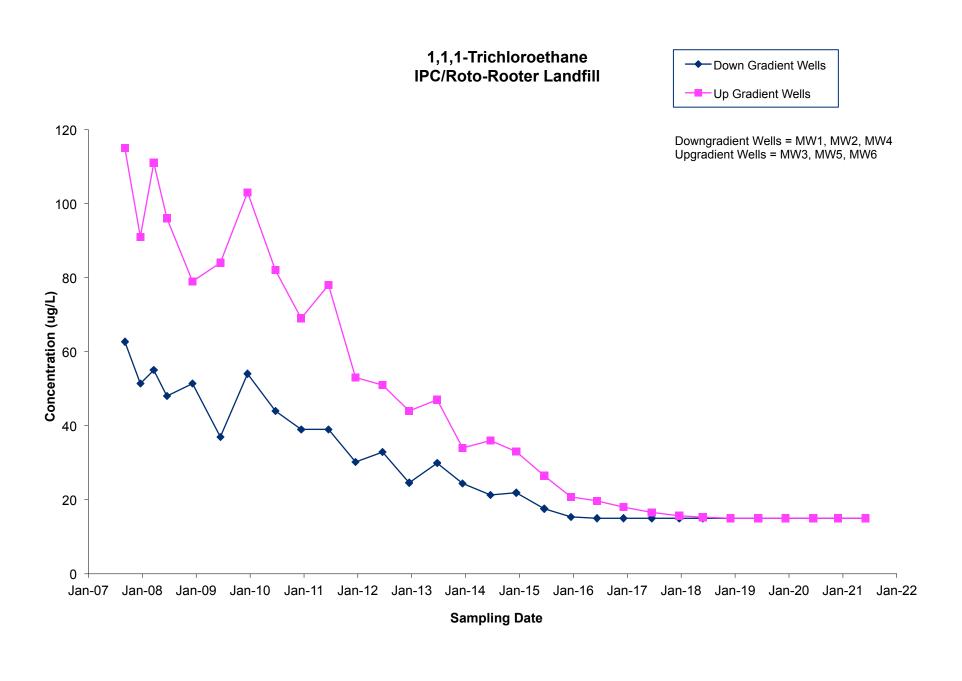
Total 1,1,1-Trichloroethane IPC/Roto-Rooter Landfill

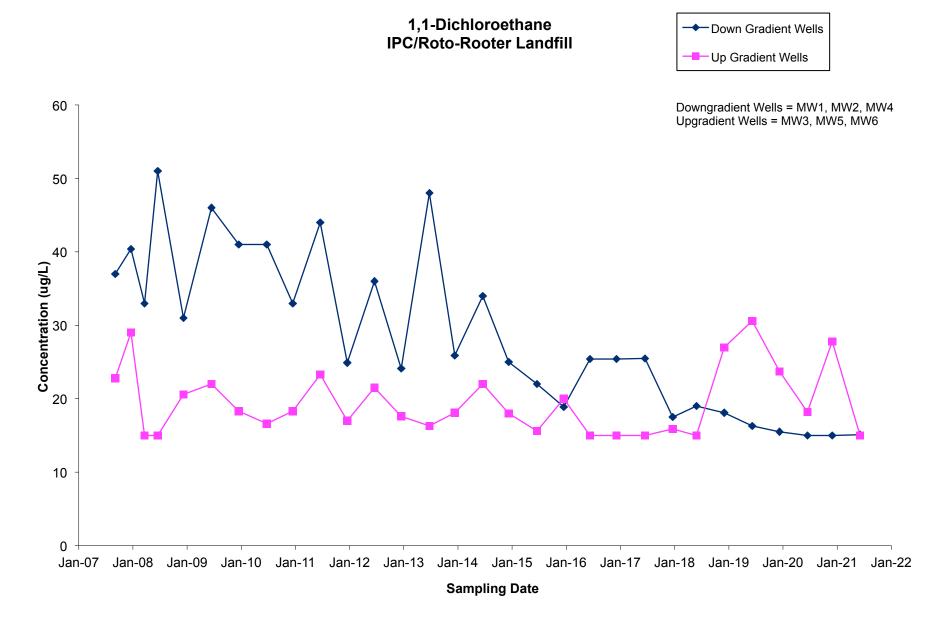




Attachment 6

Total VOC Load Trends (Individual COCs)





1,1-Dichloroethene IPC/Roto-Rooter Landfill

